

XI882

EXCEL 500 SISTEMA ABIERTO

MANUAL DE USUARIO

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INTRODUCCIÓN

General

La interface de operador XI882, en adelante simplemente XI882, permite operar sobre controladores que pertenecen a la familia Excel 500 family (e.j. Excel 50/80/100/500//800) y a la familia Excel Web (XL1000C ó únicamente versiones posteriores).

XI882 reconoce automáticamente el tipo de controlador conectado (familia Excel Web o familia Excel 500) e inicia la forma de comunicación adecuada, también automáticamente.

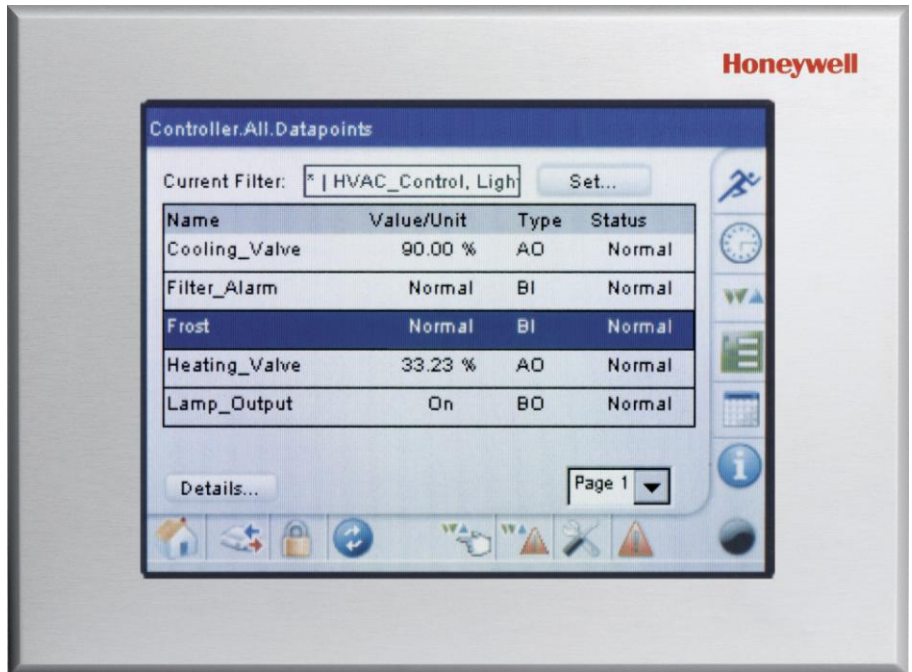


Fig. 1. Interface de Operador XI882

Para operar sobre la XI882 se puede utilizar el dedo o el bolígrafo táctil suministrado como accesorio con cada dispositivo. Se puede navegar a través de las pantallas, pulsando sobre las diferentes opciones con el dedo o con el bolígrafo táctil.

Cuando se utiliza la XI882 como interface de operador para un controlador Excel Web, este mostrará solo páginas web del controlador Excel Web. Cuando se utiliza para un controlador de la familia Excel 500, solo se visualizarán páginas de operación para la familia Excel 500.

Modelos de Controlador

La XI882 se puede comunicar con controladores de la familia Excel 500 y Excel Web.

La XI882 puede operar sobre el controlador al que está conectado y a cualquiera que esté conectado al mismo bus (bus-wide operation).

NOTA: Los controladores de la familia Excel 500 deben tener la actualización software que incluye el modo de acceso a bus-wide para XI882.

Organización del Manual

Propósito Este manual explica como conectarse a la familia de controladores de Excel 500 y al controlador Excel Web para operar sobre ellos desde la XI882.

Organización Este manual está dividido en las siguientes secciones incluyendo esta sección de introducción.

La sección “Introducción” describe brevemente la interface XI882 MMI.

La sección “Inicio” describe:

- Conectando la XI882 a la familia de controladores Excel 500 y la familia Excel Web
- Pantallas de Inicio XI882
- Configurando la XI882 para la familia de controladores Excel 500 y la familia Excel Web Configuring

La sección “Operación sobre la Familia de Controladores Excel 500” describe:

- Iconos de Operación
- Pantalla de Inicio e Indicador de Estado del Controlador
- Procedimiento Login/Logout
- Funcionalidad de acceso Bus-wide
- Configuración
- Pantalla de Información
- Operación sobre la Familia de Controladores Excel 500 aplicado a funciones particulares como:
 - Alarmas
 - Controlador
 - Puntos
 - Parámetros
 - Horarios
 - Listas de Acceso Rápido
 - Tendencias

La sección “Operación sobre los Excel Web” describe:

- Pantalla de Inicio y Funciones Básicas
- Procedimiento Login/Logout
- Cambio de Contexto (Funcionalidad de acceso Bus-wide)
- Configuración
- Pantalla de Información (proyecto, controlador, planta)
- Operación sobre los controladores Excel Web aplicado a funciones particulares como:
 - Alarmas
 - Controladores
 - Puntos
 - Parámetros
 - Horarios
 - Calendarios
 - Listas de Acceso Rápido

La sección “Funciones de Servicio” describe:

- Funciones de servicio que permiten actualizar el software de aplicación del XI882 y configurar la configuración de Windows CE.

INICIO

El apartado Inicio incluye las siguientes secciones:

- Conectar la XI882 a la familia de controladores Excel 500 o Excel Web
- Pantallas de Inicio
- Cofigurar XI882

Conectar la XI882 a la familia de controladores Excel 500 o Excel Web

Todas las conexiones están explicadas en las instrucciones de montaje del documento MU1B-0387GE51.

Prerrequisitos/Recomendaciones para utilizar la XI882

1. Para que sea posible la operación a través de bus-wide, el controlador al cual esté conectado la XI882 necesita estar actualizado al menos a la versión indicada a continuación:

XL50	->	2.06.14
XCL5010	->	2.06.14
XC5010C	->	2.06.14
XL100C	->	2.06.14
XCL8010A	->	3.01.03
2. En caso de que el controlador tuviera la versión arriba indicada (o superior) y fuera necesario una actualización de firmware se podría realizar con el CARE o el Excel Online. La XI882 se puede utilizar para actualizar el firmware del controlador al que esté conectado. (Después de esta actualización, se pueden realizar actualizaciones de firmware a través del bus-wide a otros controladores)
3. Asegurarse de que todos los controladores conectados al C-Bus estén encendidos y de que sus aplicaciones se estén ejecutando correctamente antes de encender la XI882 conectada a cualquier controlador del C-Bus. Utilizar el Excel Online para asegurarse del correcto funcionamiento de los controladores.
4. Asegurarse de que la XI882 está conectada correctamente antes de encenderlo. Esto permitirá la conexión automática al controlador.
5. Utilizar el bolígrafo táctil suministrado o el dedo para operar sobre la pantalla del XI882. ¡NO utilizar objetos afilados como destornilladores!
6. La pantalla táctil debería ser calibrada antes de utilizar cualquier funcionalidad del producto.
Para la familia Excel 500 se puede realizar esta función accediendo a la pantalla de configuración después de estar online. Ver sección "Configuración"
Para Excel Web se puede realizar esta función también en el inicio, después del encendido o accediendo a la pantalla de configuración después de estar online. Ver sección "Configuración"
7. Si el mecanismo de auto detección no funciona a la primera, entonces se debe pulsar en el icono Refrescar de la barra de herramientas para la detección de controlador.
8. Si se desea desconectar la XI882 de un controlador para conectarlo a otro diferente, pero con el mismo número de controlador (asumiendo que ambos controladores se encuentran en diferentes C-Bus), se debería borrar previamente las listas de acceso rápido creadas para el primer controlador antes de conectarlo a nuevo. En caso contrario la XI882 mostrará las listas de acceso rápido relacionadas con el antiguo controlador y por lo tanto no funcionarán.
9. La Memoria USB debe ser formateada antes de su uso en FAT (no FAT32)

Uso de la Memoria USB con XI882

NOTA: Esta sección aplica solo a la Familia de Controladores Excel 500.

La XI882 tiene dos puertos USB para poder conectar memorias USB con el objetivo de hacer upload/download de aplicaciones, download de firmware, importar ficheros de parámetros, etc. La memoria USB debería tener una estructura de directorios como la que se muestra a continuación. Si esta estructura no existe en el dispositivo USB, se tiene que crear utilizando un PC.

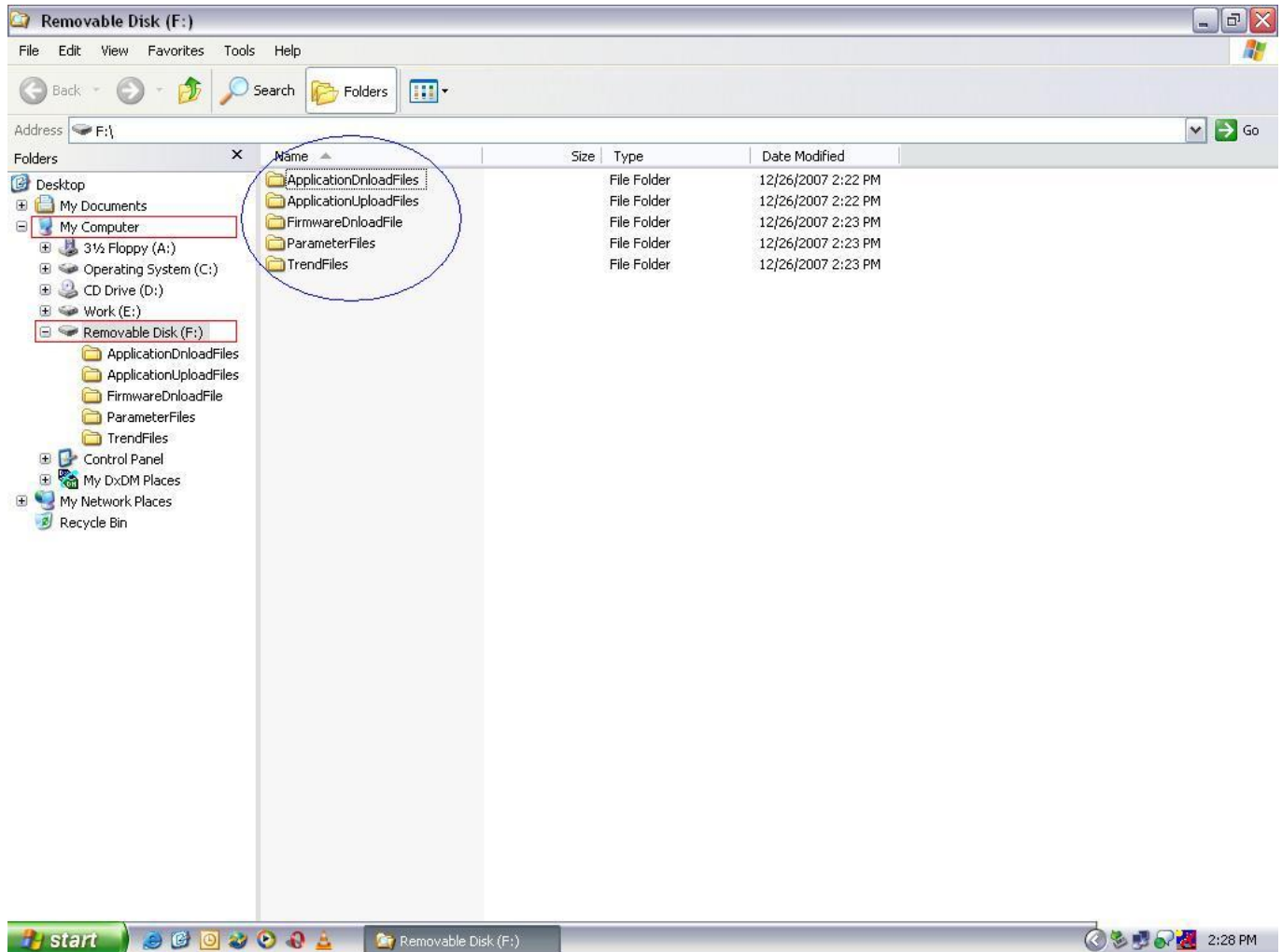


Fig. 2. Estructura de Directorios requerida en la memoria USB

Los siguientes directories deberían estar presentes en la memoria USB:

ApplicationUploadFiles	Este directorio se utiliza para hacer un upload de la aplicación del controlador a la memoria USB. Siempre que se hace upload de una aplicación, esta se almacena por defecto en este directorio. Si se desea almacenar la aplicación en otros directorios se deben crear subdirectorios bajo ese directorio.
ApplicationDnloadFiles	Este directorio se utiliza para hacer un download de la aplicación desde la memoria USB al controlador. Se recomienda crear subdirectorios, bajo este directorio, y copiar en ellos todos los ficheros relacionados con un controlador.
FirmwareDnloadFile	Este directorio se utiliza para hacer un download del firmware desde la memoria USB al controlador. Se pueden crear diferentes subdirectorios, bajo este directorio, para almacenar diferentes firmwares de diferentes controladores.
ParameterFiles	Este directorio se utiliza para importar parámetros de información desde los ficheros de parámetros de una aplicación específica. Se debe de copiar previamente los

ficheros de parámetros generados con CARE en este directorio para luego importarlos desde el XI882.

TrendFiles

Este directorio se utiliza para almacenar información de tendencias en la memoria USB. Todos los datos recogidos durante el proceso de grabación de tendencias son directamente almacenados en la memoria USB. Es obligatorio tener la memoria USB conectada a la XI882 para utilizar la funcionalidad de tendencias.

Pantallas de Inicio

Iniciando XI882

En inicios satisfactorios de la XI882 (ver el documento MU1B-0387GE51 para ver las instrucciones de montaje), se visualizará el logo de Honeywell como se muestra a continuación. Esta pantalla se mostrará durante aproximadamente 20 seg.



Fig. 3. Pantalla de inicio con el logo de Honeywell

A continuación, la XI882 intentará detectar la familia de controladores Excel 500 o un controlador Excel Web. Para el caso de los controladores Excel Web, la XI882 intentará encontrar el Excel Web haciendo ping a la dirección IP del Excel Web previamente almacenada. Durante ese momento se mostrará un mensaje de auto detección como el que se muestra a continuación. Esta pantalla tiene un time-out de 1 min.



Fig. 4. Mensaje de auto detección

En función del controlador detectado en la conexión de la XI882, existen cuatro posibles escenarios:

Caso 1: XI882 detecta un solo controlador de la familia Excel 500.

Caso 2: XI882 detecta un solo controlador Excel Web.

Caso 3: XI882 detecta ambos, un controlador de la familia Excel 500 y un controlador Excel Web.

Caso 4: XI882 no detecta ningún controlador.

Caso 1

En una detección exitosa de un controlador de la familia Excel 500 se visualizará la pantalla que se muestra abajo. La pantalla es redirigida automáticamente hacia la página de inicio de la familia de controladores del Excel 500, que es la lista de acceso rápido.

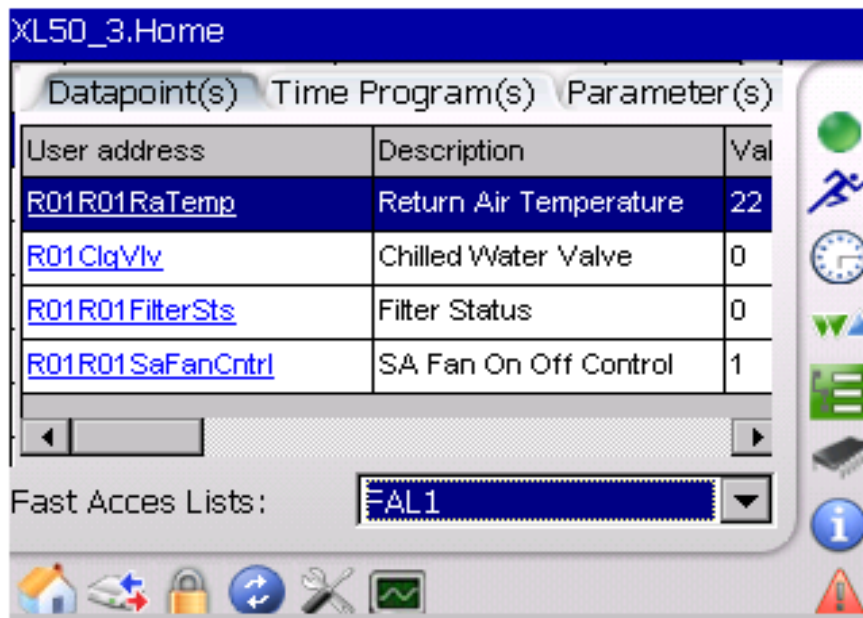


Fig. 5. Pantalla de inicio del modo de operación Excel 500

Para más información sobre la operación de un controlador de la familia Excel 500 se debe consultar la sección "Operación sobre un controlador de la familia Excel 500".

Caso 2

En una detección exitosa de un controlador Excel Web se visualizará la pantalla que se muestra abajo. Para más información consultar la sección "Configurar la XI882 para un controlador Excel Web".

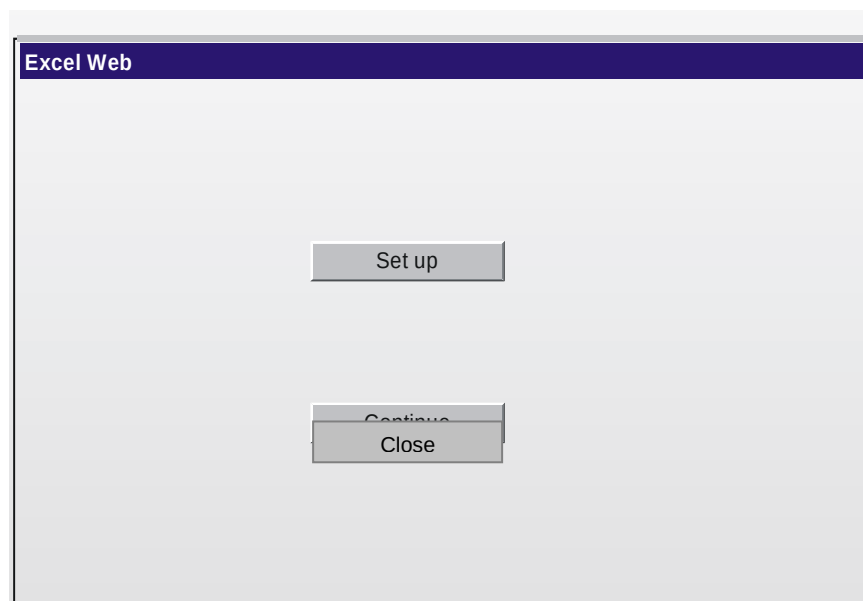


Fig. 6. Pantalla de inicio de operación del Excel

Caso 3, 4

Si la XI882 detecta ambos, un controlador de la familia Excel 500 y un controlador Excel Web, o si no detecta ningún controlador, se visualizará la pantalla que se muestra a continuación. Se puede seleccionar cualquier modo de operación.



Fig. 7. Pantalla de inicio cuando ambos controladores están/no están disponibles

Para más información sobre la operación de un controlador de la familia Excel 500 o de un controlador Excel Web consultar los siguientes apartados:

- "Operación sobre la Familia de Controladores Excel 500"
- "Configurar la XI882 para un controlador Excel Web" y "Operación sobre los Excel Web"

Configurar la XI882 para un controlador Excel Web

Dependiendo del controlador conectado a la XI882 que se detecte, hay dos escenarios de Excel Web posibles:

Caso A: La XI882 detecta el controlador Excel Web.

Caso B: La XI882 no detecta el controlador Excel Web.

Caso A (El Excel Web es detectado)

Ante la detección de un controlador Excel Web, se mostrará la siguiente pantalla. Cuando se pulsa el botón **Configuración** se podrán realizar configuraciones relacionadas con el Interface, además de la dirección IP del Excel Web. Esta pantalla tiene un time-out de 20 seg., por lo tanto si no se selecciona ninguna de las opciones, la pantalla será automáticamente reemplazada después de 20 seg. Por la pantalla de inicio del Excel Web.

Si previamente se realizaron configuraciones de red, estas serán comprobadas al vencer el time-out de esta pantalla y se mostrará la pantalla de inicio del Excel Web, en caso contrario, la pantalla de configuración del Interface continuará mostrándose.

Se puede ir a la pantalla de inicio del Excel si se pulsa el botón **Continuar**.

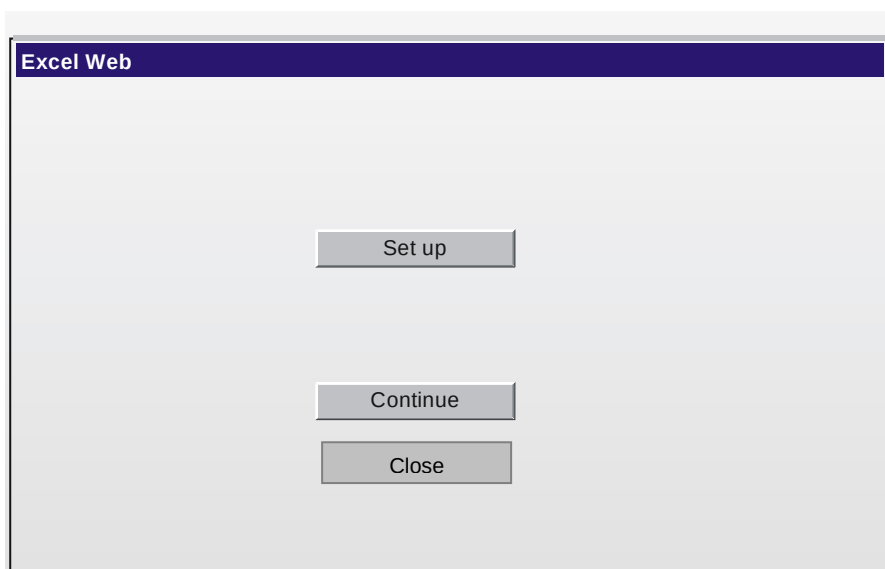
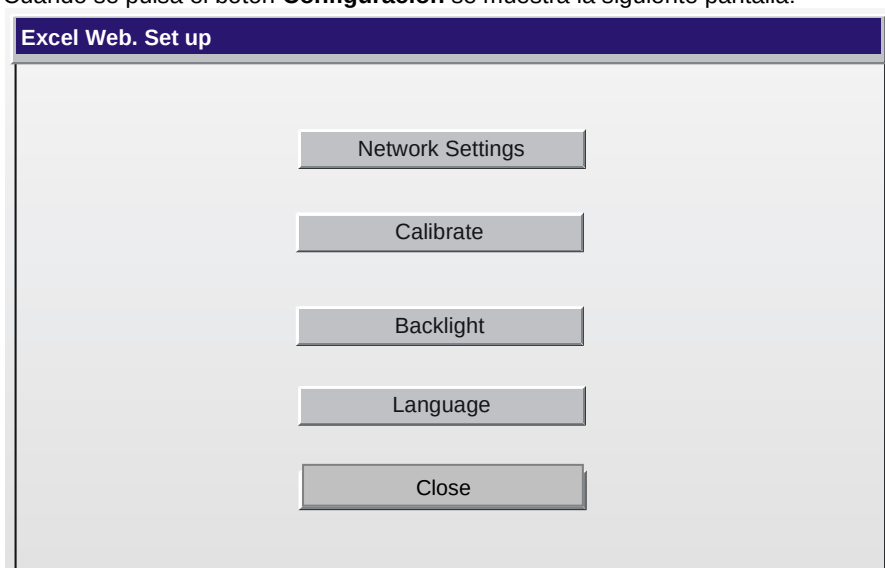


Fig. 8. Detección de un controlador Excel Web

Cuando se pulsa el botón **Configuración** se muestra la siguiente pantalla:



Configuración Red	Aquí se pueden introducir la configuración IP para la XI882 y para el controlador Excel Web.
Calibrar	Aquí se puede calibrar la pantalla táctil.
Iluminación	Aquí se puede elegir el tiempo de encendido de la iluminación.
Lenguaje	Aquí se puede seleccionar el lenguaje.
Continuar	Aquí se puede acceder a la pantalla de inicio del Excel Web.

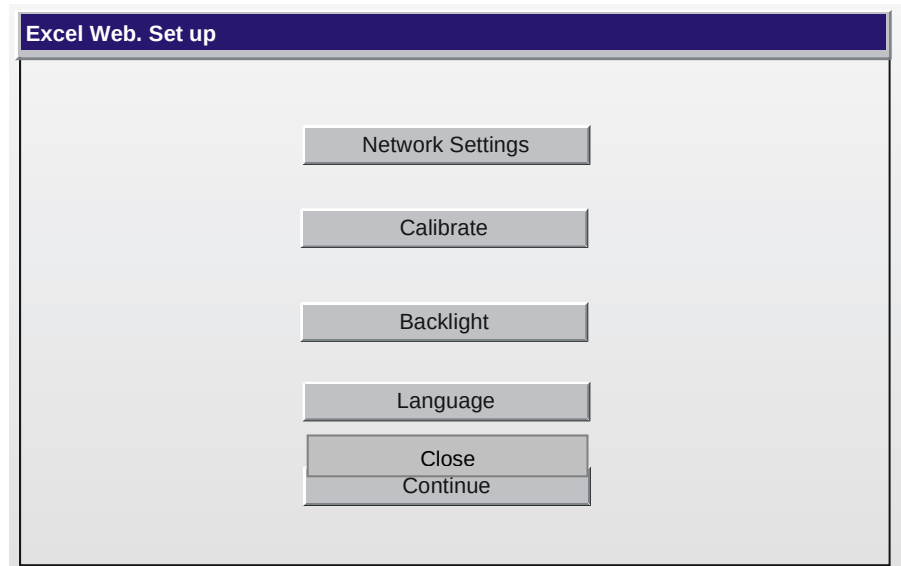


Fig. 9. Configuración Excel Web

Configuración Red	La ventana de configuración de red muestra las tres pestañas siguientes: • Información IP • Dirección IP • Dirección IP Excel Web
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Pestaña Información IP

La pestaña de *Información IP* muestra las posibles configuraciones IP de la XI882, con las direcciones para la IP, la Máscara de subred y la Puerta de Enlace. El Tipo de Dirección puede ser DHCP o Static según se haya seleccionado en el tipo de dirección en la pestaña *Dirección IP*.

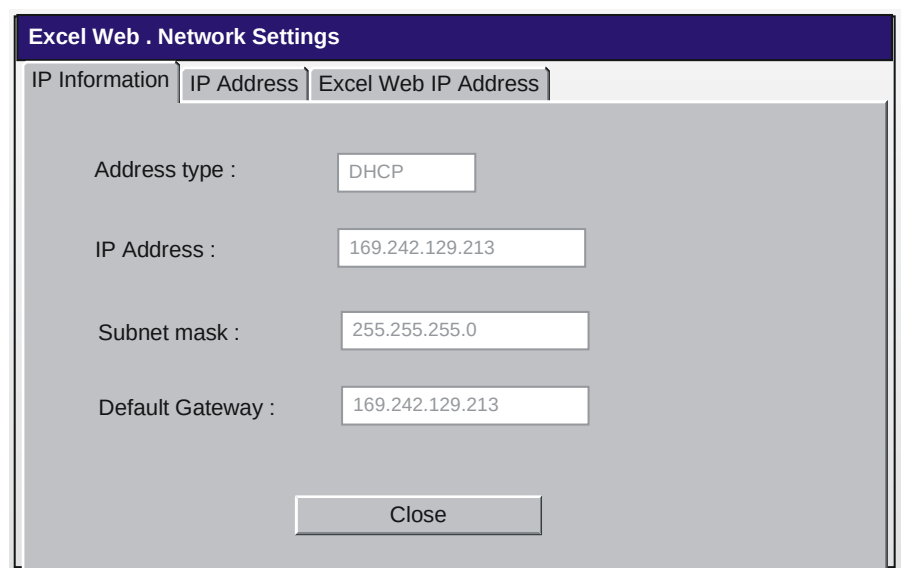


Fig. 10. Pantalla Información IP

Pestaña Dirección IP

La pestaña de *Dirección IP* permite especificar manualmente una Dirección IP junto a una Máscara de Subred y una Puerta de Enlace para el XI882, u obtener estas direcciones automáticamente vía DHCP. La utilización de un servidor DHCP disminuye el riesgo de conflictos de dirección IP en la red.

Se debe elegir la opción deseada y, si procede, introducir las direcciones adecuadas. Pulsar el botón **Aplicar** para guardar la configuraciones. Pulsar el botón **Cerrar** si no se desea cambiar la configuración.

Excel Web . Network Settings

IP Information | IP Address | Excel Web IP Address

An IP address can be automatically assigned to this computer

☐ Obtain an IP address via DHCP

☒ Specify an IP address

IP Address : 169.242.129.213

Subnet mask : 255.255.255.255

Default Gateway : . . .

Apply Close

Fig. 11. Pantalla de Dirección IP

Pestaña Dirección IP Excel Web

Aquí se puede especificar la dirección IP del controlador Excel Web al cual se desea acceder. Hay que tener en cuenta que la dirección IP de la XI882 y del Excel Web no debe ser la misma.

Pulsar el botón **Aplicar** para guardar la configuración y luego pulsar el botón **Cerrar**.

Excel Web . Network Settings

IP Information | IP Address | Excel Web IP Address

IP Address : 169.242.129.213

Apply Close

Fig. 12. Pantalla Dirección IP Excel Web

Calibrar

Para calibrar se debe colocar el dedo o el bolígrafo táctil en la cruz mostrada en la pantalla. Esta cruz se mostrará en cinco posiciones, una tras otra, cuando se pulse

en punto solicitado sobre la pantalla. Después de esta secuencia es completada, se debe tocar en cualquier punto de la pantalla para salir.

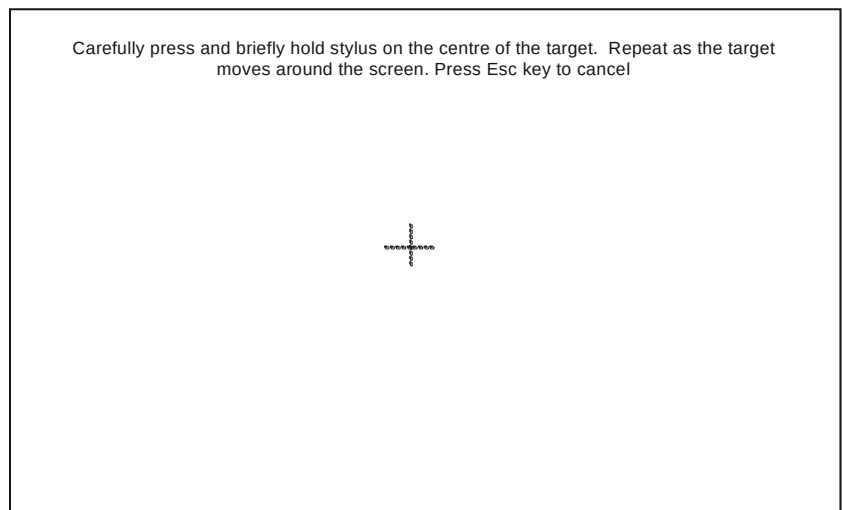


Fig. 13. Pantalla Calibración

NOTA: Para cancelar la calibración, pulsar en cualquier punto de la pantalla.

Iluminación

La opción Iluminación permite decidir el tiempo que permanece la iluminación encendida cuando no hay actividad sobre la pantalla. Esta opción puede ser activada marcando la opción **Apagar automáticamente la iluminación** y posteriormente seleccionando el tiempo deseado en la lista desplegable.

Pulsar el botón **Aplicar** para guardar los cambios realizados y luego pulsar el botón **Cerrar**.

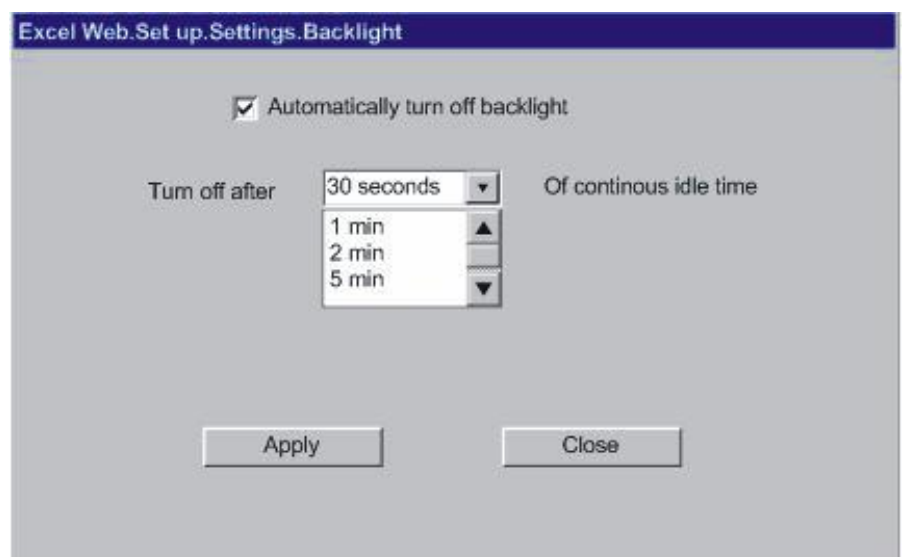


Fig. 14. Configuración de la Iluminación para Excel Web

Lenguaje

La opción Lenguaje permite cambiar el idioma de la pantalla. El idioma por defecto es inglés. La XI882 soporta los idiomas Inglés, chino, taiwanés, cirílico, japonés y otros idiomas europeos.

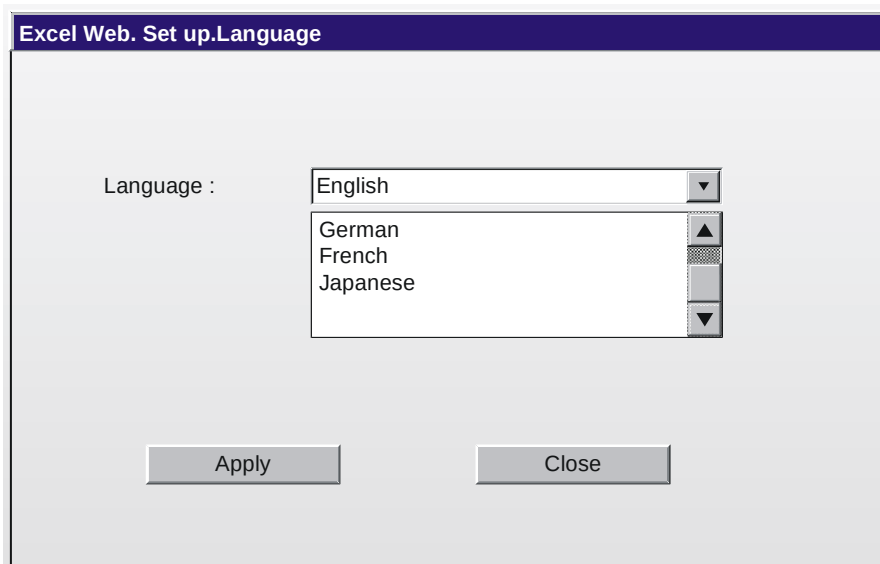


Fig. 15. Configuración Lenguaje Excel Web

Seleccionar el lenguaje de la lista desplegable **Lenguaje**.

Pulsar el botón **Aceptar** para guardar las configuraciones y aparecerá la pantalla de confirmación.

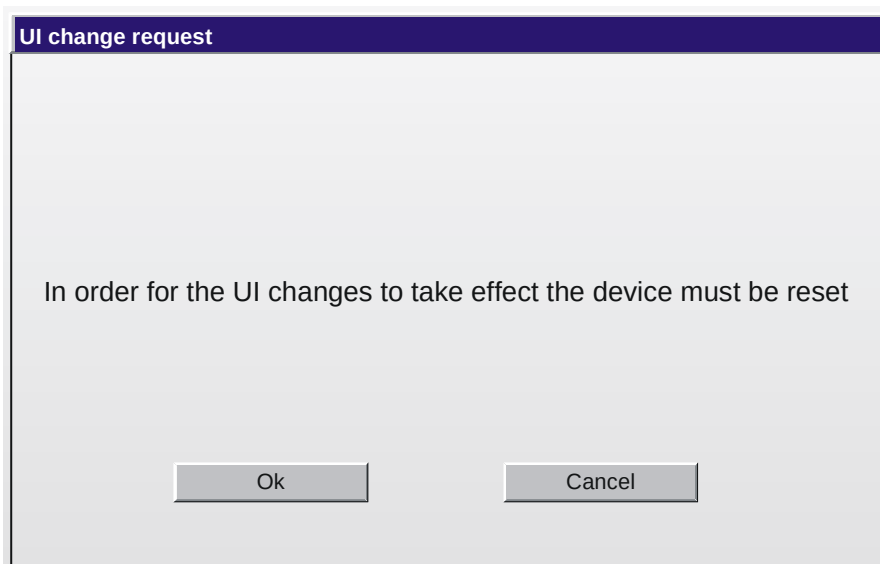


Fig. 16. Resetear

Pulsar **Cancelar** para reiniciar la XI882. Posteriormente las pantallas serán visualizadas en el idioma elegido.

Continuar

Al seleccionar **Continuar** las configuraciones establecidas previamente se aplican y la pantalla de inicio del Excel Web se visualiza en la pantalla.

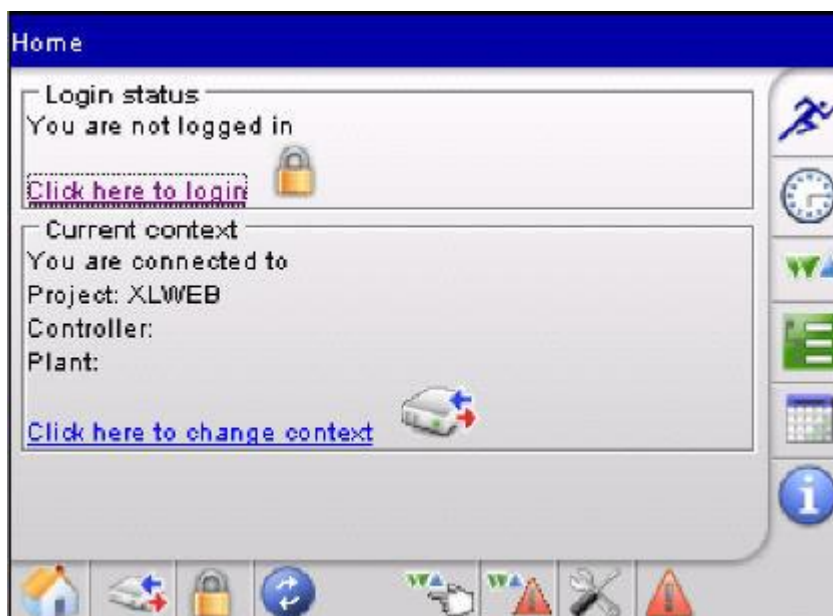


Fig. 17. Pantalla de Inicio del Excel Web

Caso B (El Excel Web no es detectado)

Si no se detecta un controlador Excel Web o se conecta un controlador Excel Web desconfigurado, o si las configuraciones de red del XI882 y del Excel Web no concuerdan, las pantallas del Excel Web se visualizará.

El botón **Continuar** se deshabilitará en caso de que no haya o no concuerden las configuraciones previas guardadas en el Excel Web conectado a la XI882. Se debe implementar una configuración de red correcta en el controlador, desde el principio, para poder ver las páginas web.

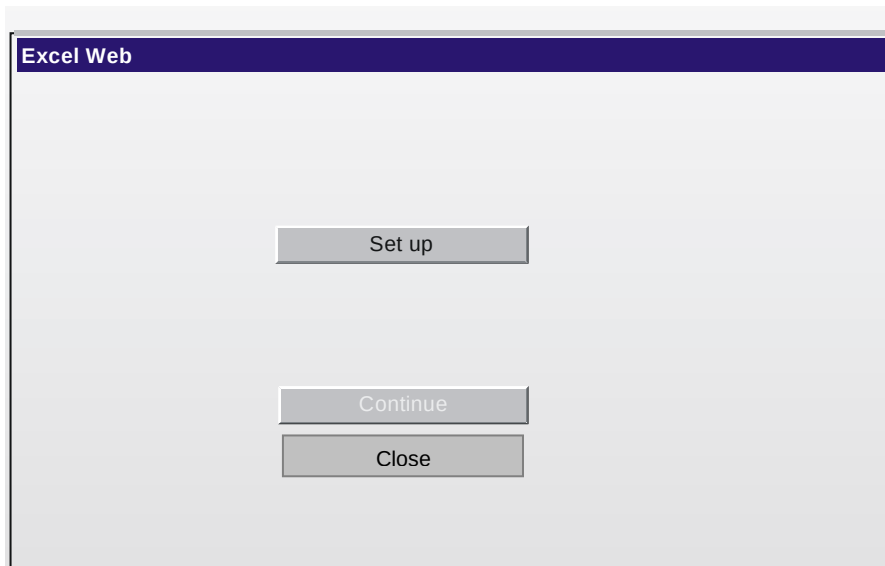


Fig. 18.

Pulsar el botón **Configuración**. Se visualizará la pantalla de configuración. En esta pantalla el botón **Continuar** permanecerá deshabilitado hasta que las configuraciones de red se configuren de forma correcta.

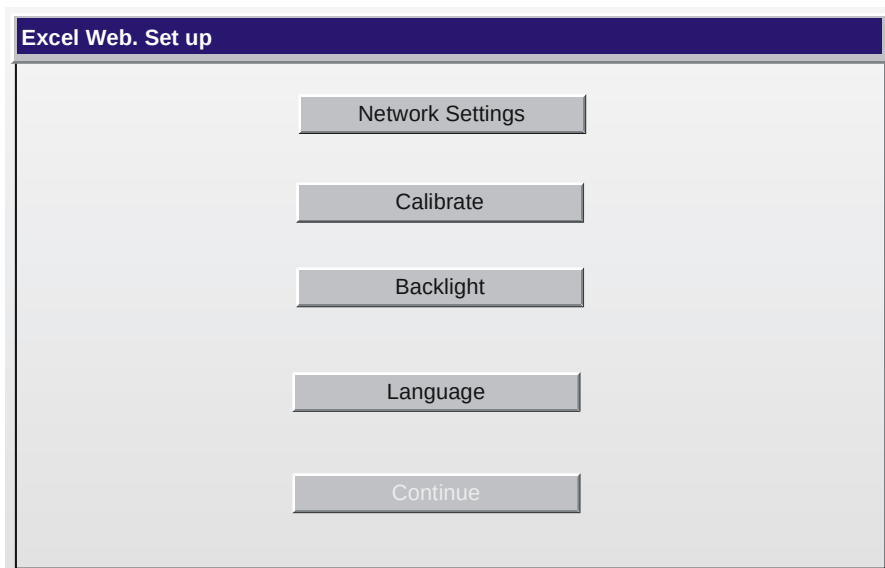


Fig. 19.

Consultar la sección "Configuración Red" para introducir/modificar las configuraciones de red. Una vez que la configuración se ha modificado se puede acceder a la página de inicio del Excel Web pulsando en el botón **Continuar**.

Configurar la XI882 para la Familia de Controladores Excel 500

Si el XI882 detecta ambos, un controlador de la familia Excel 500 y un controlador Excel Web, o si la XI882 no detecta ningún controlador, la siguiente pantalla será visualizada. Se puede seleccionar cualquier modo de operación.



Fig. 20. Pantalla de inicio cuando ambos controladores ó ningún controlador están disponible

Para operar sobre un controlador de la familia Excel 500, cerciorarse:

- que el cable serie (XW585 o XW885) está conectado a la XI882 y al controlador.
- que el controlador está encendido, ejecutándose y operative con una aplicación cargada.
- que – NO SE PUEDE UTILIZAR UN TRANSFORMADOR COMÚN PARA LA XI882 Y EL CONTROLADOR/ES!! En este caso, el cable serie creará un bucle a tierra y un cortocircuito, que producirá una caída de la tensión y daños graves en la XI882 (pantalla negra).

OPERACIÓN SOBRE LA FAMILIA DE CONTROLADORES EXCEL 500

Si se detecta un controlador de la serie, se visualiza una página de inicio como la siguiente.

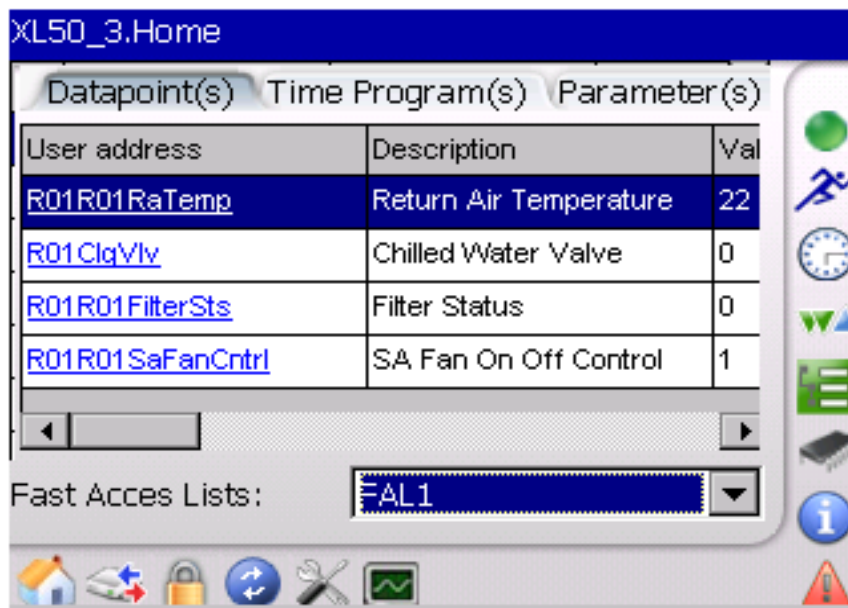


Fig. 21. Página Familia de Controladores Excel 500

Iconos de Operación

Barra de Herramientas Horizontal	Nombre Iconos	Función
	Inicio	Visualiza la página de inicio, que este caso es una previsualización de la Lista de Acceso Rápido.
	Bus-wide Cambio de Controlador	Permite el acceso a cualquier controlador en el bus
	Login / Logout:	Permitir logging in/logging out a un controlador con un nivel de acceso específico
	Actualizar	Refrescar la pantalla actual
	Configuración	Permite establece/cambiar la configuración de la XI882 y del controlador (e.j. pantalla, fecha y hora y otros).
	Tendencias	Permite el registro de puntos en formato gráfico y almacenarlos en una memoria USB.
	Alarmas del Sistema	Permite ver las Alarmas del Sistema

Barra de Herramientas Horizontal Nombre Iconos Función



Listas Acceso
Rápido (LAR)

Permite crear, cambiar y borrar listas de acceso rápido, e.j. un vistazo rápido de puntos, parámetros y horarios.



Horarios

Permite ver, crear, cambiar y borrar horarios



Datapoints

Permite ver, crear, cambiar y borrar puntos



Parámetros

Permite ver, crear, cambiar y borrar parámetros



Controlador

Permite upload/download de aplicaciones, download del firmware del controlador y operaciones sobre la FLASH EEPROM



Información

Permite ver información sobre el proyecto, controladores, plantas y lazos de control

Indicación del Estado de Controlador Online/Offline

Si el controlador se va un estado de offline (e.j. debido a la desconexión con la XI882) el icono del LED verde  de la pantalla cambiará a rojo  y el resto de iconos se deshabilitarán, excepto el de 'Configuración' y 'Actualizar', hasta que se reconecte a la XI882. Cuando la XI882 está offline, si se pulsa el icono Actualizar, comenzará la función de autodetección para reconectarse al controlador. Durante el proceso de autodetección, el icono LED parpadeará alternando entre rojo y verde. En caso de reconexión satisfactoria se habilitará de nuevo la pantalla previa.

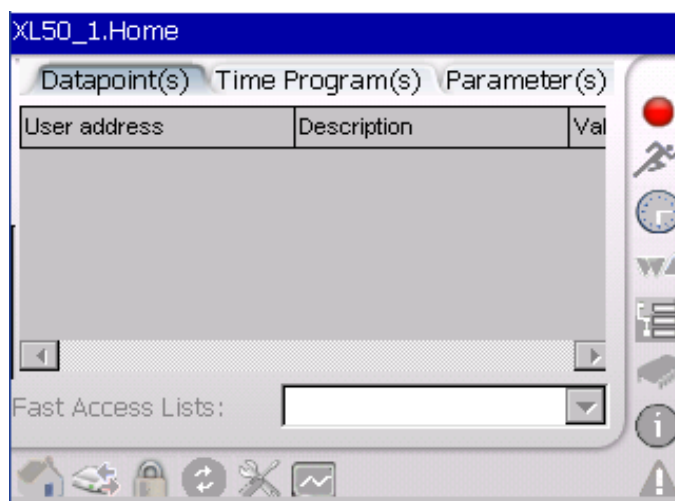


Fig. 22. Controlador offline

NOTA: ¡Pulsar el icono Actualizar después de haberse conectado a un controlador diferente!

Ajuste del Ancho del Columna

El ancho de las columnas mostradas se puede ajustar automáticamente a la longitud del texto visualizado (e.j. puntos, horarios, etc).
Simplemente pulsar con el bolígrafo táctil o el dedo sobre la línea divisoria entre dos columnas, mantener el bolígrafo táctil o dedo sobre la pantalla y mover a izquierda o derecha. Tan pronto se levante el bolígrafo táctil o dedo de la pantalla, el ancho de la columna cambiará.

Opción Ordenar Filas

La secuencia de filas se puede ordenar haciendo clic en el campo de la cabecera de la columna. Una vez hecho esto aparecerá una pequeña flecha en el lado derecho de la cabecera de la columna, apuntando hacia arriba o abajo en función de si el orden establecido es ascendente o descendente.

Esta opción puede ser de interés cuando los puntos u otra información necesitan ser ordenados, para secuencias ascendentes o descendentes.

XI882 Conectado a un Controlador sin Aplicación

Si el controlador conectado no contiene ninguna aplicación solo se visualizarán como habilitados los siguientes iconos:

- Indicador de Red Offline
- Controlador
- Información
- Alarmas del Sistema
- Actualizar
- Login
- Bus-wide / Cambiar de controlador

Para poder suministrar una aplicación, se debe estar logado con un nivel de acceso 3 y posteriormente descargar la aplicación adecuada en el controlador. Al mismo tiempo también se puede establecer conexión con cualquier controlador en el C-Bus utilizando la funcionalidad bus-wide para configurar una supervisión adecuada para ese controlador.

Inicio

Por defecto, para la serie Excel 500, se visualiza como pantalla de inicio las 'Listas de Acceso Rápido'. Se redirigirá siempre a esta pantalla

cuando se pulse el icono . Una Lista de Acceso Rápido (LAR) es una selección definida por usuario de:

- Puntos,
- Horarios,
- y Parámetros

Esta selección puede ser visualizada rápidamente para una monitorización frecuente de esos valores. Inicialmente no hay LARs disponibles. Se pueden crear LARs pulsando el icono LAR. Para crear una nueva LAR, consultar la sección [LAR](#).

Se puede seleccionar la LAR deseada mediante la lista de acceso desplegable de **Lista de Acceso Rápido**. Se pueden cambiar los valores pulsando en la columna **Valor** de un punto determinado e introduciendo el valor deseado con la ayuda del Panel de Entrada. Para guardar el valor establecido aceptar los cambios.

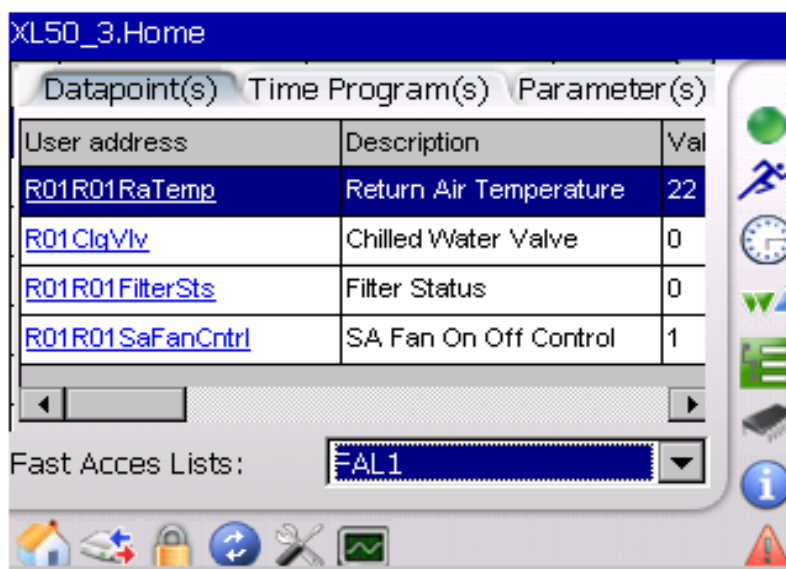


Fig. 23. Detección de un controlador de la Serie Excel 500

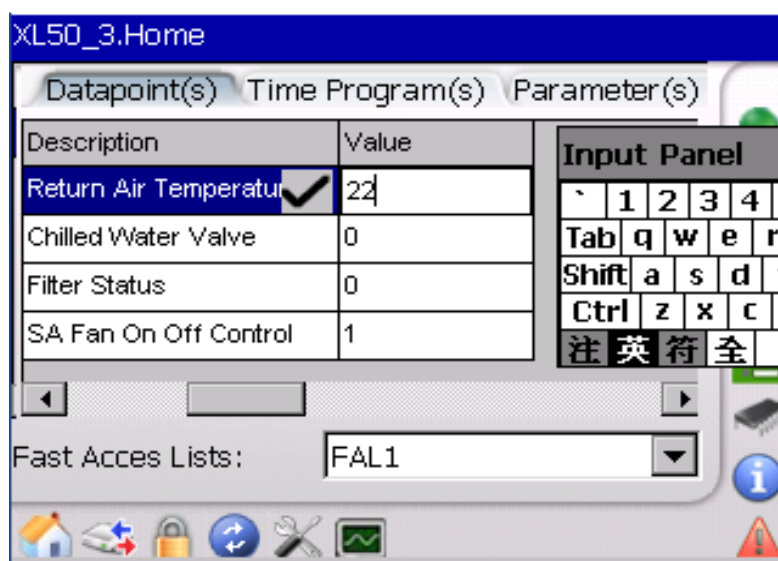


Fig. 24. Modificar/Cambiar valores de puntos

Para obtener los atributos de un punto determinado se puede seleccionar un punto determinado en la columna **Puntos**. Después de esto se visualiza la pantalla de atributos. Los atributos con el símbolo de un 'bolígrafo' pueden ser editados mientras que los atributos con el símbolo de un 'candado' no se pueden editar. Posteriormente se introduce el nuevo valor con la ayuda del Panel de Entrada y se pulsa la marca para ☒ guardar los cambios.

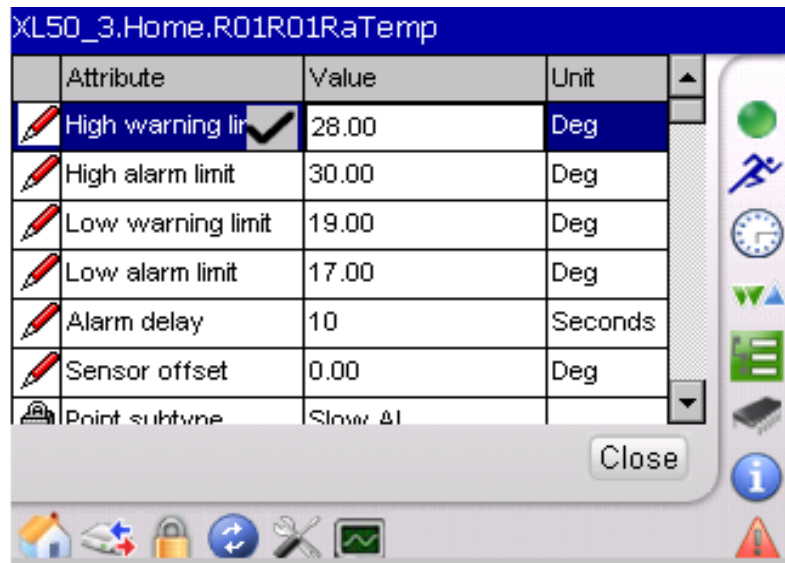


Fig. 25. Atributos de puntos

La pestaña *Horarios(s)* redirigirá a la pantalla de horarios que muestra los horarios asignados previamente a la LAR seleccionada. Se puede seleccionar otra LAR de la lista desplegable de las **Listas de Acceso Rápido**.

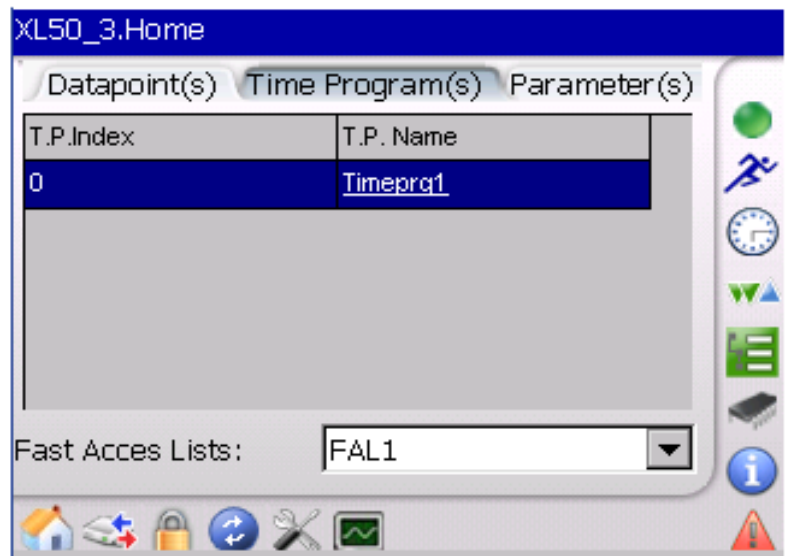


Fig. 26. Pantalla de la Lista de Acceso Rápido seleccionada (Horarios)

Si se pulsa sobre el nombre de horario correspondiente se visualizará la pantalla de detalles del horario seleccionado. Los detalles del horario se explican en la sección "Horarios". Si se pulsa **Cerrar** se regresará a la pantalla previa.

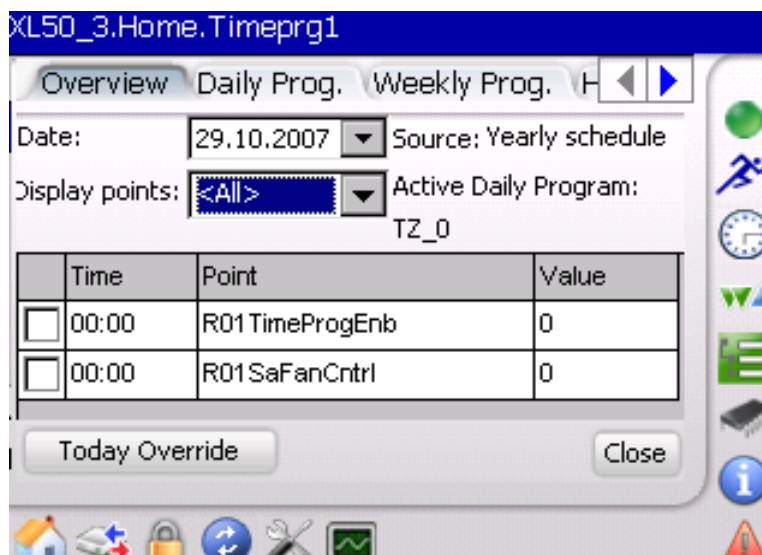


Fig. 27. Pantalla de Horarios

La pestaña *Parámetro(s)* visualiza la lista de parámetros que contiene el número de parámetro, su descripción y también su valor. Los parámetros se almacenan en ficheros y esos ficheros se pueden seleccionar eligiendo el fichero apropiado desde la lista desplegable **Fichero**. También se puede seleccionar otra LAR desde la lista desplegable **Lista de Acceso Rápido**.

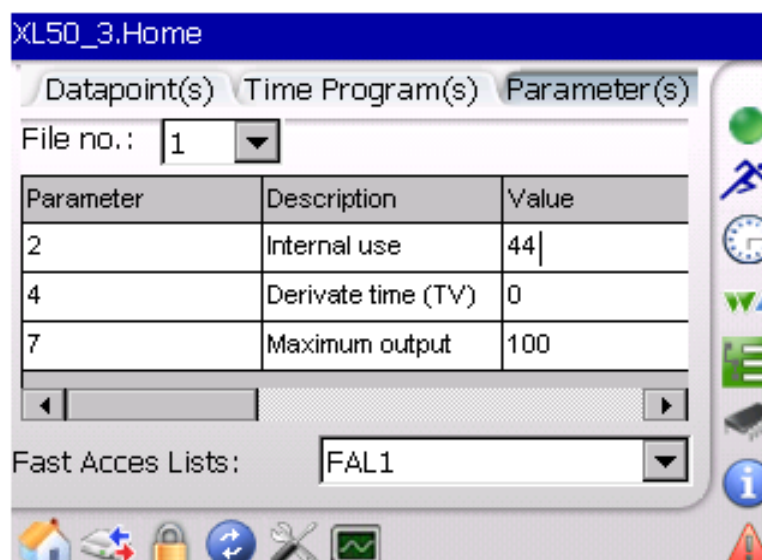


Fig. 28. Pantalla de Lista de Acceso Rápido seleccionada (Parámetros)

Login/Logout

Un usuario puede acceder a cualquier controlador a través de una XI882 teniendo uno de los tres niveles de acceso. Todos los usuarios tienen un acceso básico para ver información sobre parámetros, puntos, horarios, etc, pero para cambiar/modificar estos valores el usuario debe tener nivel acceso 2 o 3. Ambos niveles de acceso están protegidos por password. Se tiene que seleccionar el icono  para obtener acceso a esos niveles.

NOTA: Solo se puede acceder a un nivel al mismo.

La siguiente tabla proporciona un vistazo de varios niveles de acceso para las diferentes funcionalidades:

Funcionalidad	Nivel 1	Nivel 2	Nivel 3
Inicio/ Lista de Acceso Rápido	✗	✗	✓
Acceso al Bus- wide	✓	✓	✓
Login/Logout	✓	✓	✓
Configuración	Por favor, acudir a la tabla de abajo para los niveles de acceso de las diferentes secciones dentro de esta funcionalidad.		
Tendencias	✓	✓	✓
Alarmas	✓	✓	✓
Informaciónn	✓	✓	✓
Controlador	✗	✗	✓
Parámetros	✗	✗	✓
Puntos	✗	✗	✓
Horarios	✗	✓	✓
Configuración de Listas de Acceso Rápido	✗	✗	✓

✓ = Acceso Completo
✗ = Acceso Solo Lectura

Nivel de Acceso requeridos para las secciones de la funcionalidad Configuración



Funcionalidades	Nivel 1	Nivel 2	Nivel 3
Reloj	✗	✓	✓
Ciclo Reloj RACL	✗	✗	✓
Comunicación	✗	✗	✓
HMI-Pantalla	✗	✓	✓
HMI-Calibrar	✓	✓	✓
HMI-Iluminación	✗	✓	✓
HMI-Lenguaje	✓	✓	✓
HMI-Reloj	✓	✓	✓
HMI-Opciones	✗	✗	✓

✓ = Acceso Completo
✗ = Acceso Solo Lectura

En la pantalla *Login*, pulsar el botón **Login**.

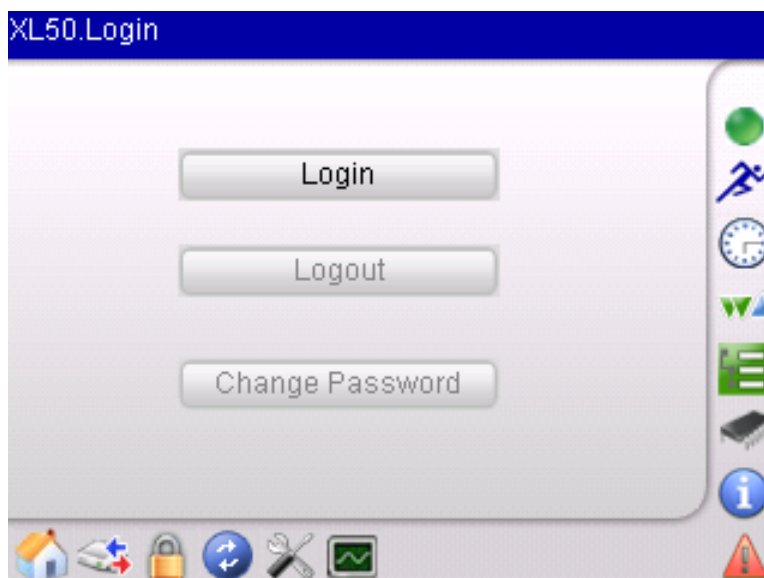


Fig. 29. Pantalla Login

En la pantalla *Introducir Password*, introducir los 4 dígitos para el nivel deseado. El password puede oscilar entre 0000 y 9999.



Fig. 30. Pantalla Introducir Password

Si se pulsa el botón **Ok** la XI882 se redirige automáticamente a la pantalla de inicio y el símbolo de *Candado* indicará el estado de 'Desbloqueado'.

Si se introduce un password incorrecto aparecerá una ventana pop-up con el mensaje 'Password Incorrecto!!'. Si se selecciona el botón **Cerrar** se regresará a la pantalla de *Login*.

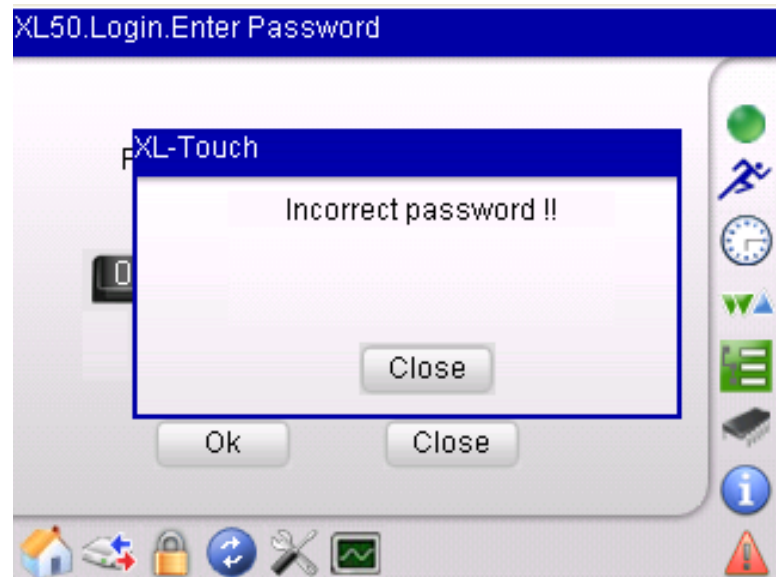


Fig. 31. Mensaje de Error por password

También se puede cambiar el password para un nivel de acceso. Esta opción se habilita solo si se ha introducido previamente nivel de acceso 3.

NOTA: Es necesario utilizar passwords diferentes para nivel 2 y nivel 3. En caso contrario solo se tendrá acceso para el nivel 2.

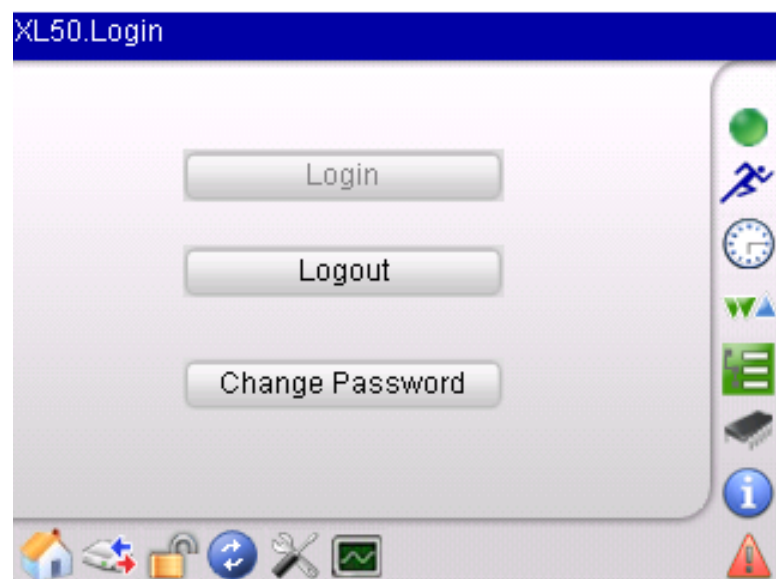


Fig. 32. Opción cambiar Password habilitada

La pantalla para niveles de acceso 2 y 3 se muestra a continuación.

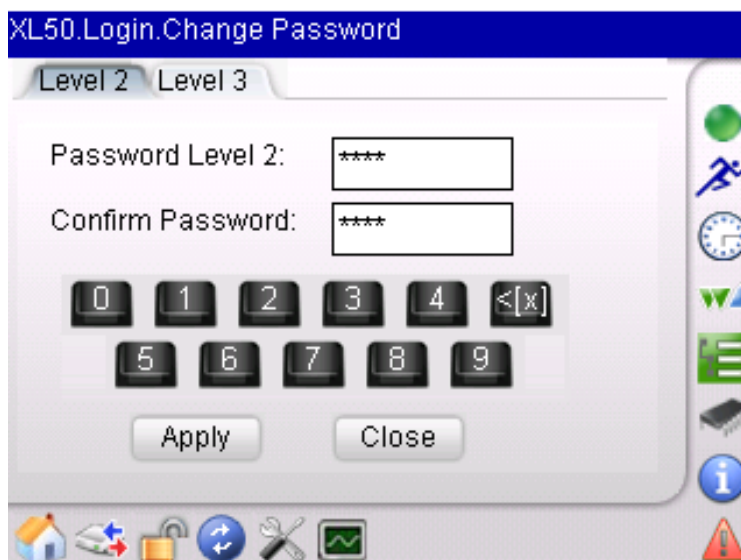


Fig. 33. Pantalla de cambio de password Nivel 2

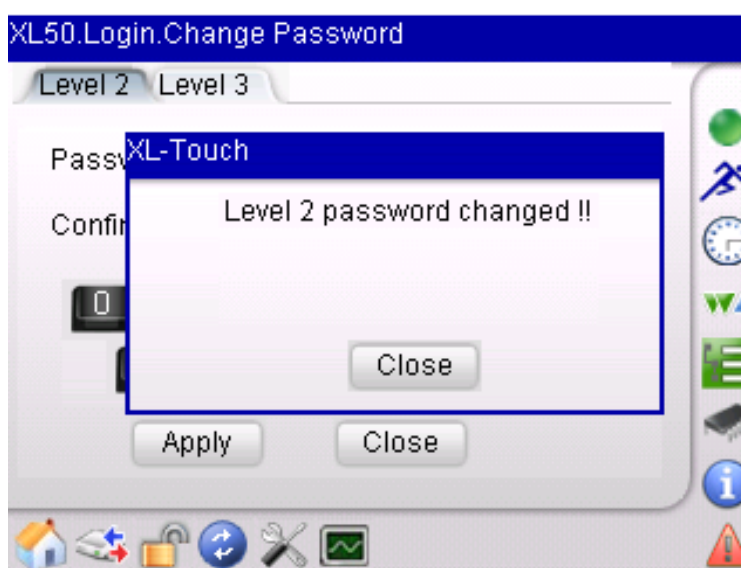


Fig. 34. Password de Nivel 2 cambiado correctamente

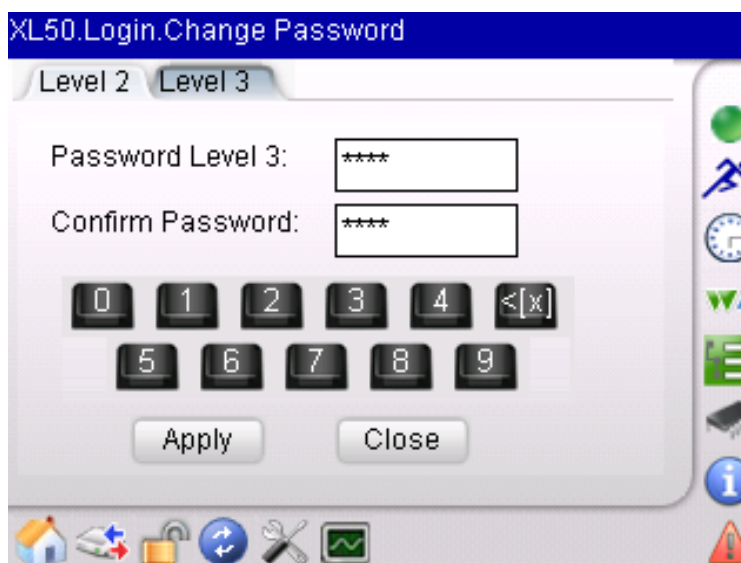


Fig. 35. Pantalla de cambio de password Nivel 3

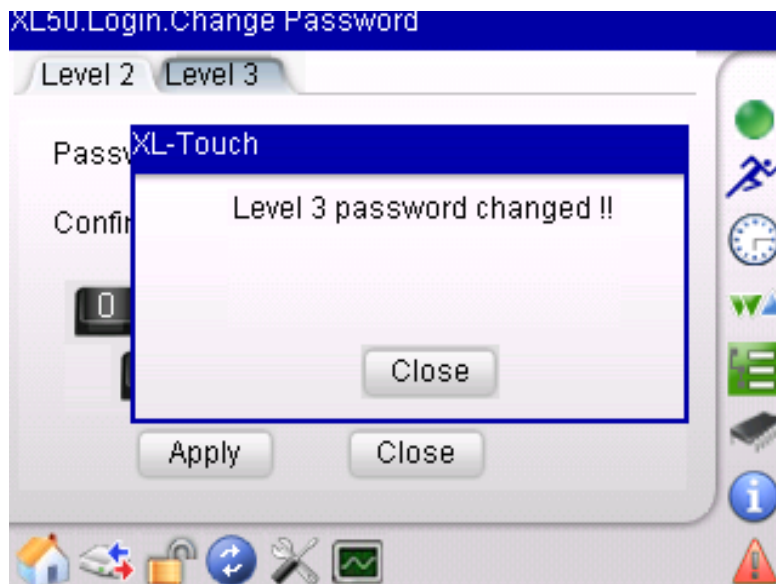


Fig. 36. Password de Nivel 3 cambiado correctamente

Si no se introduce el mismo password en el campo **Confirmar Password** se visualizará un pop-up de error y se deberá introducir el password de nuevo. También se generará un error en caso de que se dejen los passwords en blanco.



Fig. 37. Error de Cambio de Password

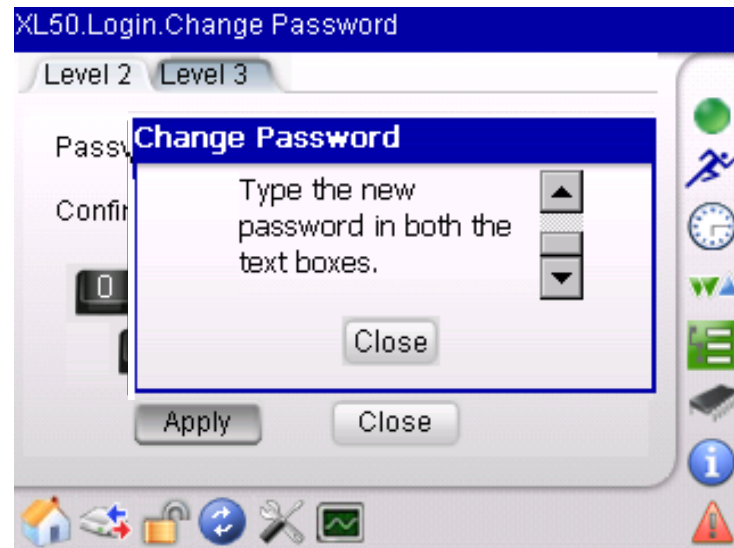


Fig. 38. Error de Cambio de Password

Configuración

Se puede acceder también a la configuración para el XI882 mediante el icono . Al seleccionarlo aparecerá la siguiente pantalla.



Fig. 39. Pantalla de Configuración

Al pulsar el botón **Controlador** se visualizará una pantalla donde se puede ver o cambiar las configuraciones relacionadas con el controlador. Que se pueda solo ver o también cambiar dichas configuraciones depende del nivel de acceso introducido.

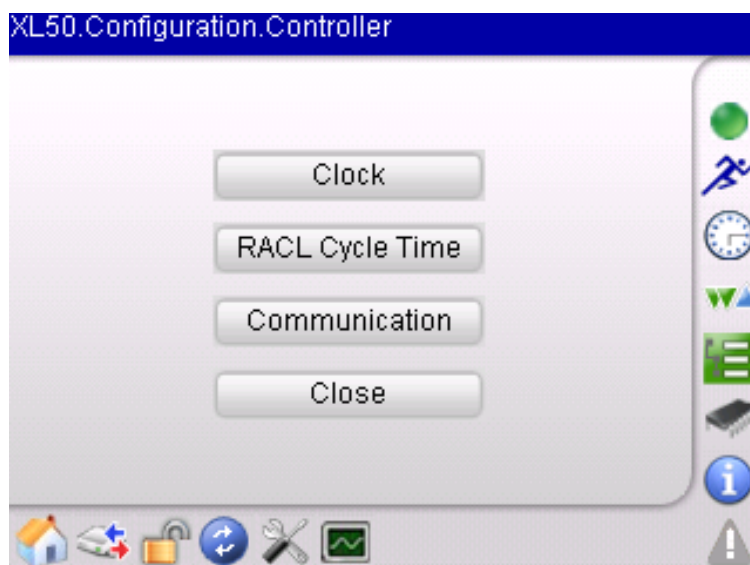


Fig. 40. Pantalla de Configuración del Controlador

Si se pulsa el botón **Reloj** se podrá cambiar la configuración del reloj del controlador.



Fig. 41. Configuración Reloj del Controlador

Introducir la fecha y la hora en los campos **Fecha** y **Hora**. También se puede configurar el controlador para que utilice la hora de la XI882, para ello, pulsar el checkbox **Usar reloj XLTouch**.

Pulsar el botón **Aplicar** para que se apliquen los cambios. Para regresar a la pantalla anterior pulsar el botón **Cerrar**.

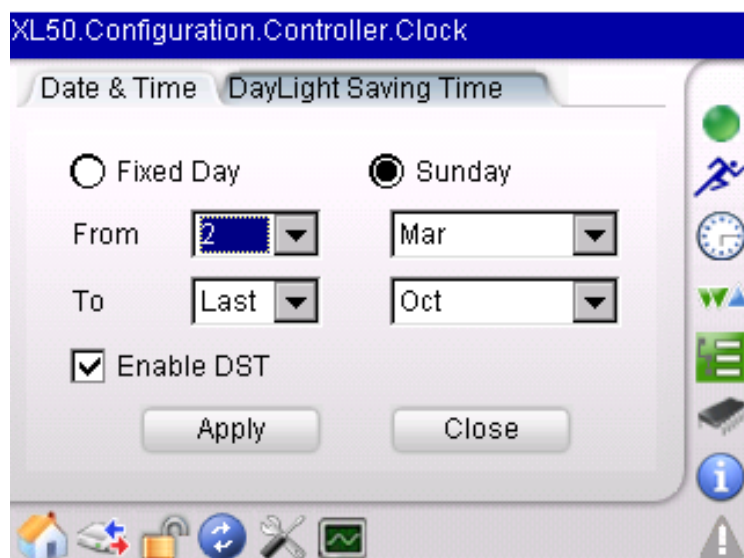


Fig. 42. Configuración Habilitar Cambio de hora del Controlador

El Cambio de Hora se utiliza en varios países y la pestaña *Fecha de Cambio de Hora* se utiliza para tal propósito.

Se utilizan los campos **Desde** y **Hasta** para especificar el rango de días para los cuales se desea habilitar el cambio de hora. Posteriormente se tiene que marcar el checkbox **Habilitar Cambio Hora** para habilitar la funcionalidad en el periodo establecido. También se puede configurar el cambio de hora para que se realice un **Domingo** o en un **Día Concreto**. Después pulsar **Aplicar** o **Cerrar**.

Las aplicaciones que se ejecutan en el controlador están basadas en el software RACL. Cada ciclo RACL tiene su propio ciclo de reloj. La pantalla RACL se utiliza solo para visualizar y muestra el ciclo de reloj actual. Los rangos para el ciclo de reloj pueden oscilar entre 0.25 y 60 segs.

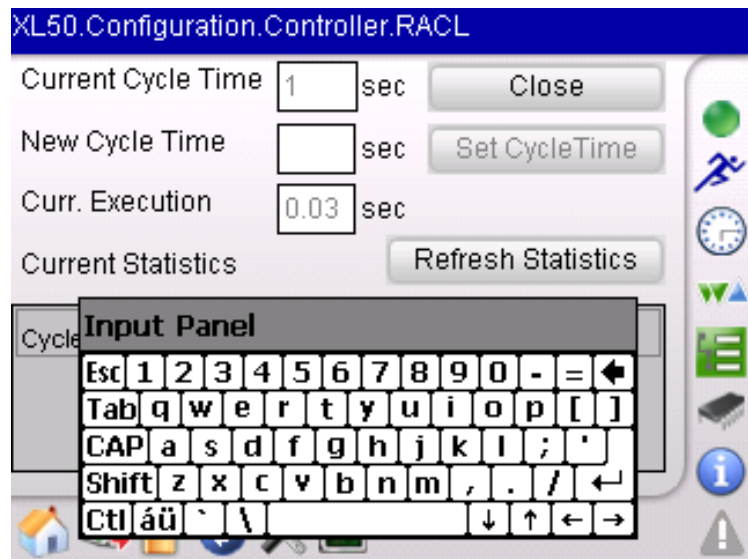


Fig. 43. Pantalla de Ciclo de Reloj RACL

La pantalla *Comunicación* permite ver los parámetros de comunicación del C-bus y/o de un modem. Dentro del C-Bus la XI882 se comunica con el controlador a través del número controlador que este tiene asignado. El campo **Nº Controlador** muestra el número de controlador que está actualmente conectado a la XI882.

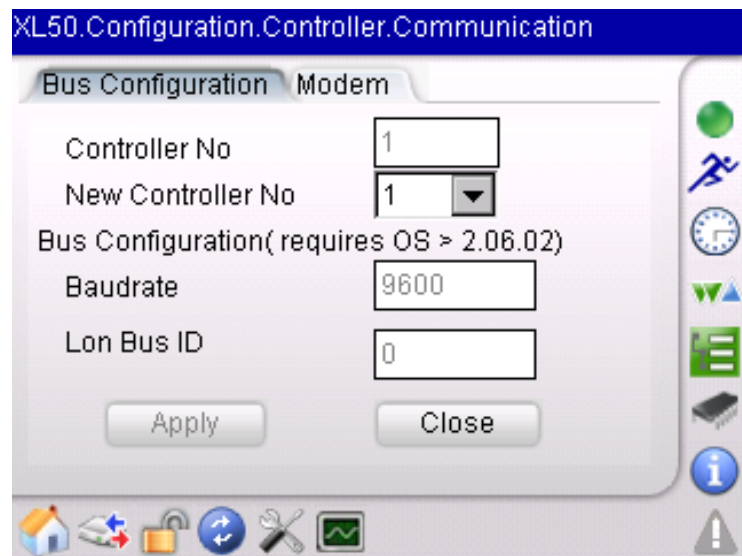


Fig. 44. Configuración C-Bus

En la pestaña Modem se puede deshabilitar el modem marcando el checkbox **Deshabilitar Modem** en el arranque (previamente se debe resetear el controlador para esta operación). Las opciones del modem solo estarán habilitadas en caso de que no haya ninguna aplicación cargada/ejecutándose en el controlador, en caso contrario estarán deshabilitadas.

Si se desea utilizar el modem en primer lugar se debe resetear el modem y posteriormente configurar el modem como se indica a continuación. Establecer el **Baudrate**, el **PIN GSM** necesario para llamar al número del controlador a través de la red GSM y la **Memoria de Aplicación** en un rango desde 38 a 128 que será destinada a la aplicación actual.

El campo **Entradas Tendencia** será calculado automáticamente por el controlador en función de la memoria de aplicación especificada. Por lo tanto este campo no se puede modificar.

El botón de **Resetar Modem** reestablecerá la configuración inicial al modem. Para guardar los cambios realizados, pulsar **Aplicar**.

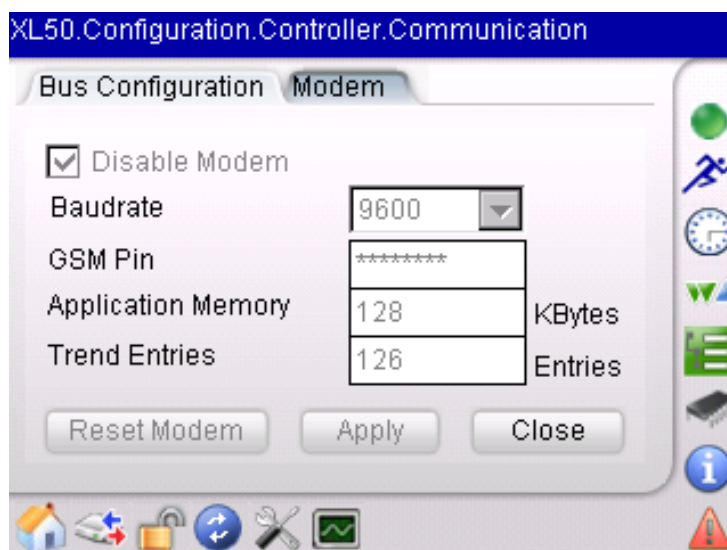


Fig. 45. Configuración Modem

Pulsando el botón XLTouch en la pantalla Configuración se muestra la siguiente pantalla que permite el acceso a una serie de funciones:



Fig. 46. Configuración XLTouch

Refrescar

La configuración de refresco define la tasa de actualización de los valores que se muestran en cualquier pantalla. A través de la lista desplegable Intervalo Update se puede seleccionar el intervalo de actualización. Para guardar los cambios pulsar **Aplicar**

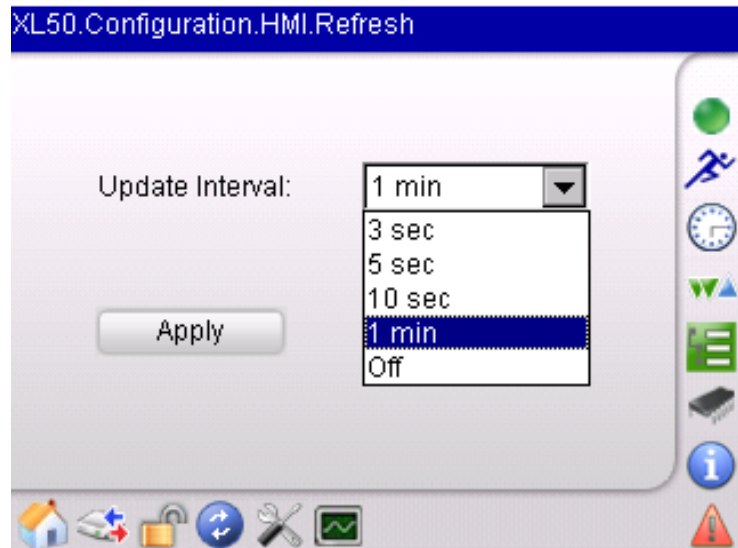


Fig. 47. Configuración Refrecar XI882

Calibrar Esta función se utiliza para calibrar la pantalla de la XI882. Al pulsar el botón **Calibrar** se visualizará la siguiente pantalla. Se tiene que seguir la secuencia de puntos que irán marcando las cruces que aparecerán para calibrar la pantalla táctil.

NOTA: Para salir una vez terminada la calibración, se debe pulsar en cualquier lado de la pantalla.

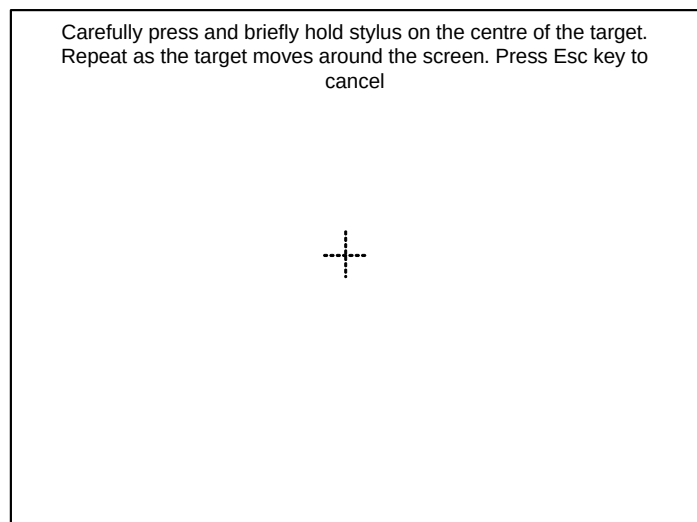


Fig. 48. Configuración Calibración XI882

Iluminación Esta función define el tiempo que permanece la pantalla de la XI882 encendida, durante un periodo de inactividad, antes de que se apague. Marcar el checkbox **Apagar automáticamente la iluminación** y seleccionar el tiempo deseado en la lista desplegable **Apagar después de**. Después pulsar **Aplicar**.

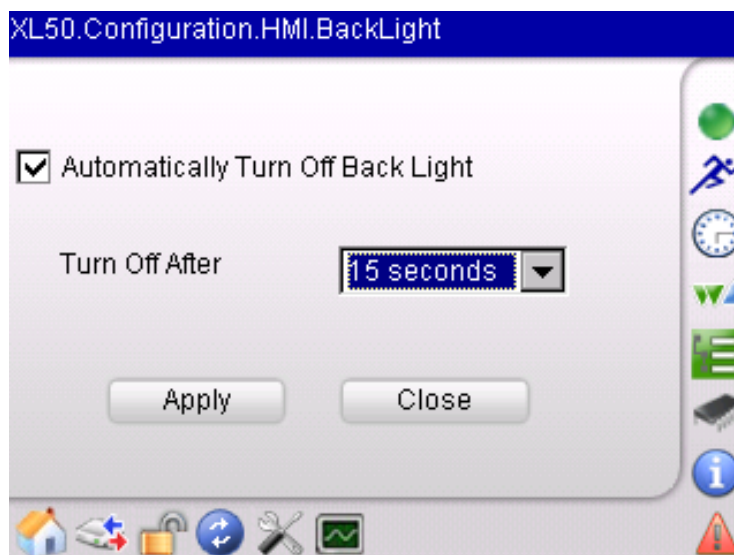


Fig. 49. Configuración Iluminación XI882

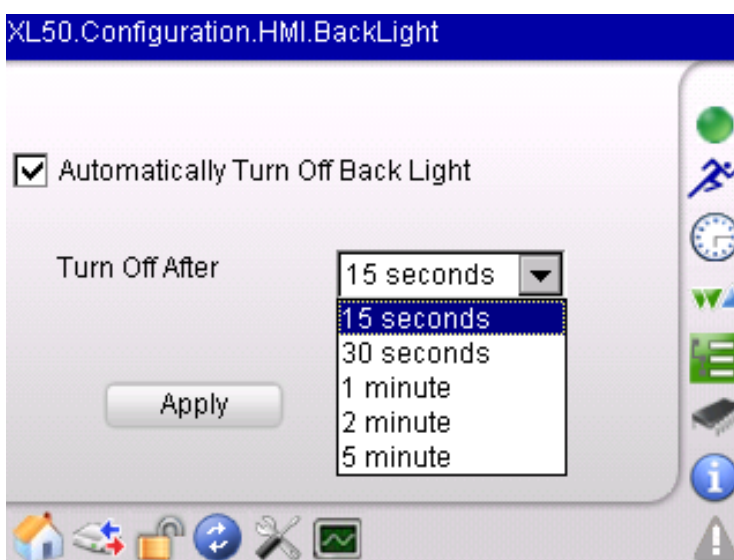


Fig. 50. Configuración Iluminación XI882

Lenguaje

La XI882 soporta los lenguajes inglés, chino, taiwanés, cirílico, japonés y los lenguajes europeos.

En caso de que se seleccione un lenguaje que no tenga las pantallas traducidas, se mostrará el panel de entrada (teclado software) en el lenguaje seleccionado, pero las pantallas se visualizarán en inglés.

Seleccionar el lenguaje deseado mediante la lista desplegable Lenguaje. Pulsar el botón **Aplicar** y luego el botón **Ok** en el mensaje que aparece.



Fig. 51. Configuración Lenguaje XI882

Reloj En esta sección se puede cambiar la configuración de la fecha y la hora de la XI882. En la pestaña *Fecha* se puede establecer la fecha actual, mediante la lista desplegable **Fecha**. Posteriormente es necesario pulsar el botón **Aplicar** para que el cambio tenga efecto.

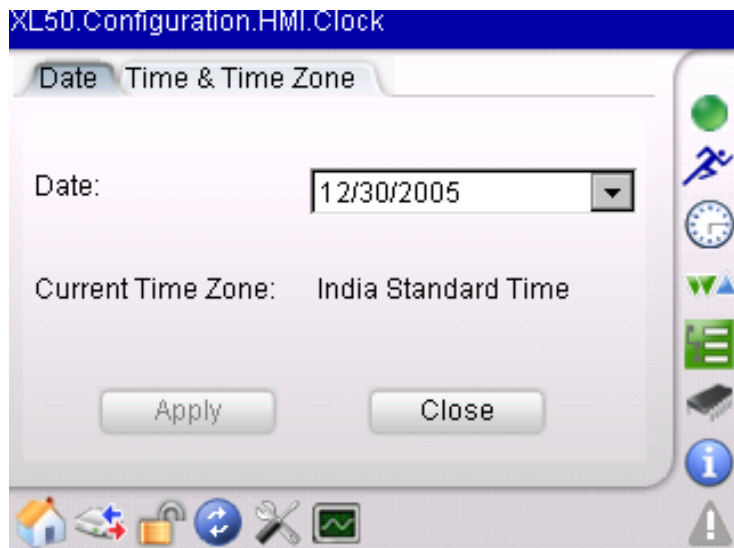


Fig. 52. Configuración de la Fecha XI882

En la pestaña *Hora & Zona Horaria* se puede cambiar la hora de la XI882 y seleccionar la zona horaria GTM donde se encuentre la XI882. Después de realizar los cambios necesarios, pulsar el botón **Aplicar**.

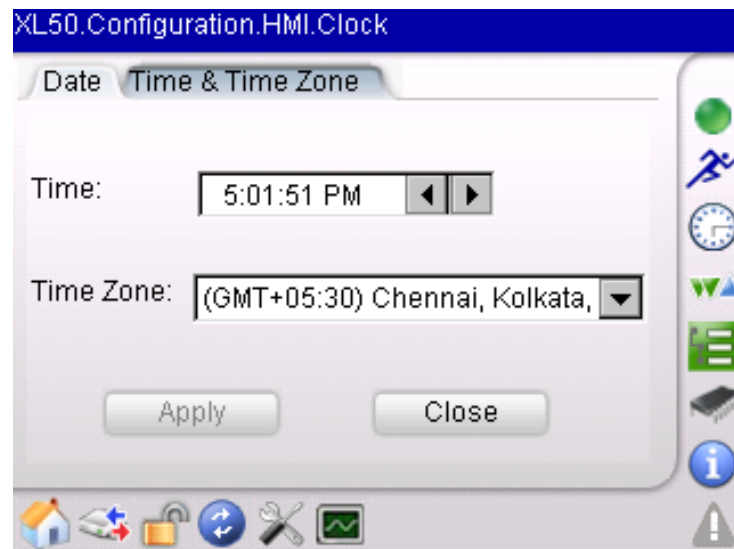


Fig. 53. Configuración de la Hora XI882

Opciones

La pantalla *Opciones* permite modificar la configuración del BPort (puerto serie), Upload/Download del controlador, retados para el download del Firmware y otras configuraciones generales de la XI882.



Fig. 54. Configuración del BPort XI882

La pestaña Puertos permite fijar la velocidad de comunicación baudrate entre la XI882 y el controlador, marcando el checkbox **Cambiar a 38400 baud al conectar**. Después de esto, todas las comunicaciones entre la XI882 y el controlador se realizarán con dicha velocidad. Si no se marca dicha opción la velocidad será fijada por el controlador. Pulsar **Aplicar** después de realizar cualquier cambio.

En la pestaña *Controlador* se pueden habilitar/deshabilitar las siguientes opciones:



Fig. 55. Configuración del Controlador XI882

- Parar controlador durante upload
Si está marcada, el controlador se detiene durante un upload o un download de una aplicación
- Mostrar warning cambios interface LON
Si está marcada, se visualizará un warning cuando el interface LON haya cambiado.
- Establecer N° cont. automáticamente.
Si está marcada, se establecerá el número de controlador de forma automática en función de las condiciones actuales.
- Establecer Bus baudrate automáticamente
Si está marcada, se obtiene el valor por defecto de fábrica.
- Establecer automáticamente Bus ID
Si está marcada, se establecerá dicho valor de acuerdo a las condiciones actuales.

En la pestaña *Firmware* se puede modificar el tiempo de retardo entresecciones aplicado en el download del firmware. Introducir el valor deseado en el campo **Retrado EntreSecc.**

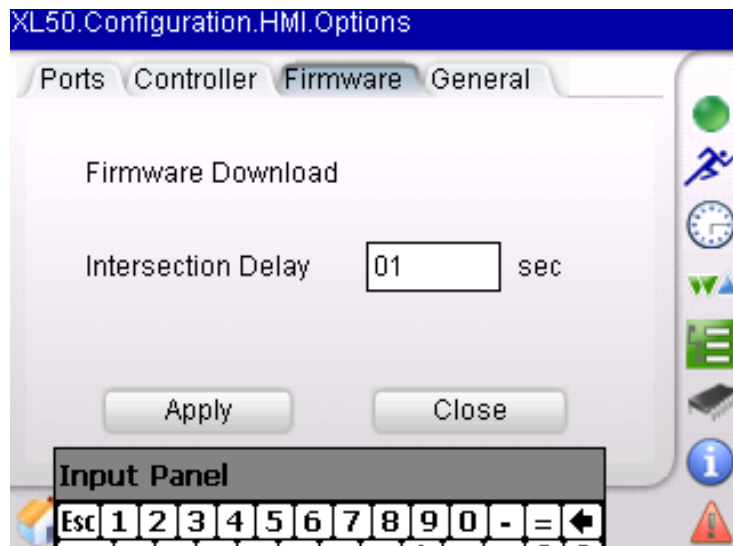


Fig. 56. Configuración del firmware XI882

Pulsar el botón **Aplicar**.

En la pestaña *General*, se puede marcar el checkbox **Mostrar todos dígitos Valores Puntos** si se desea ver todos los dígitos de los valores de los puntos. A continuación, pulsar el botón **Aplicar**.

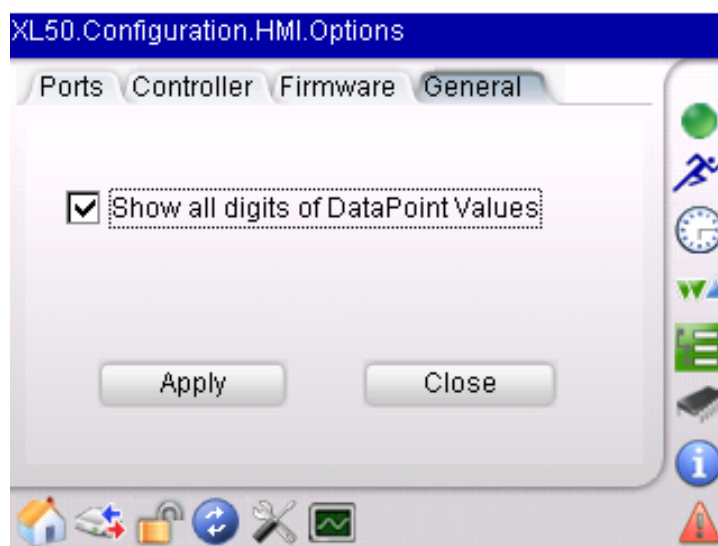


Fig. 57. Configuración General XI882

Tendencias

Mediante el icono  se pueden habilitar las tendencias de puntos (recolección de información referente al valor/estado histórico de puntos).

Prerrequisitos

Son necesarios los siguientes prerrequisitos para poder utilizar la función de tendencias:

- 1) Memoria USB, pendrive USB
- 2) Se debe crear el directorio "TrendFiles" en la memoria USB
- 3) Debe haber al menos 300 Mbytes de espacio libre en la memoria USB, por ejemplo, si se desea grabar tendencias las 24h del día. Si se llena la memoria USB durante la grabación de datos no se recogerán más datos a partir de ese momento y se perderán dichos datos.

Comportamiento cuando una memoria USB se desconecta durante la grabación de tendencias

Cuando se desconecta la memoria USB mientras está activa la recopilación de tendencias, esta se detendrá. Posteriormente será necesario configurar de nuevo ese punto en tendencia, una vez se haya conectado de nuevo la memoria USB.

Número máximo de puntos para recoger en tendencia

Se puede seleccionar un máximo de 20 puntos por cada controlador y visualizar un máximo de 8 puntos simultáneamente en un Gráfico de Tendencia.

En la pantalla *Tendencias* se visualizarán 3 opciones:

Crear un nuevo Archivo de Tendencias, Abrir un Archivo de Tendencias existente y Cerrar cualquier Archivo de Tendencias abierto.

Los ficheros de tendencias tienen la extensión .htf y se almacenan en el directorio TrendFiles de la memoria USB.

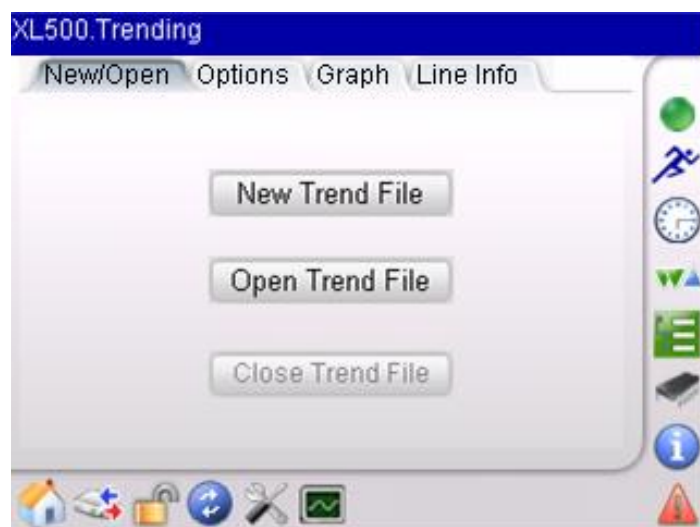


Fig. 58. Configuración de Tendencias XI882

Nuevo/Abrir

Nuevo Archv. Tendencia

Permite la creación de un archivo de tendencia en la memoria USB donde se guardará la información de los puntos seleccionados. El botón estará habilitado mientras no haya ningún archivo abierto. Después de pulsar el botón es necesario introducir el nombre que se le asignará al fichero que se creará en la memoria USB. Si se pulsa la marca ✓, se abrirá directamente el fichero. Si se pulsa la marca ✕, se cancelará la operación. En caso que el fichero se cree satisfactoriamente, el nuevo fichero de tendencias se abrirá por defecto.

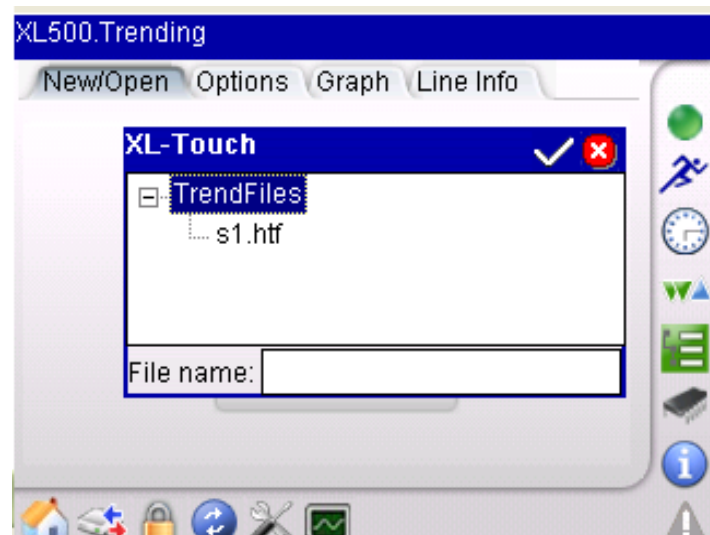


Fig. 59. Creación de un nuevo archivo de Tendencia

Abrir Archivo Tendencia

Permite abrir cualquier archivo de tendencia creado recientemente o existente en la memoria USB conectada. En un principio este botón está habilitado. Se deshabilitará en caso de que abra correctamente un archivo. Mientras no haya ningún archivo abierto, todos los botones de la pestaña *Opciones* estarán deshabilitados. Al pulsar este botón se mostrará una ventana que muestra los archivos de tendencia que se pueden seleccionar dentro del directorio *TrendFiles* de la memoria USB.

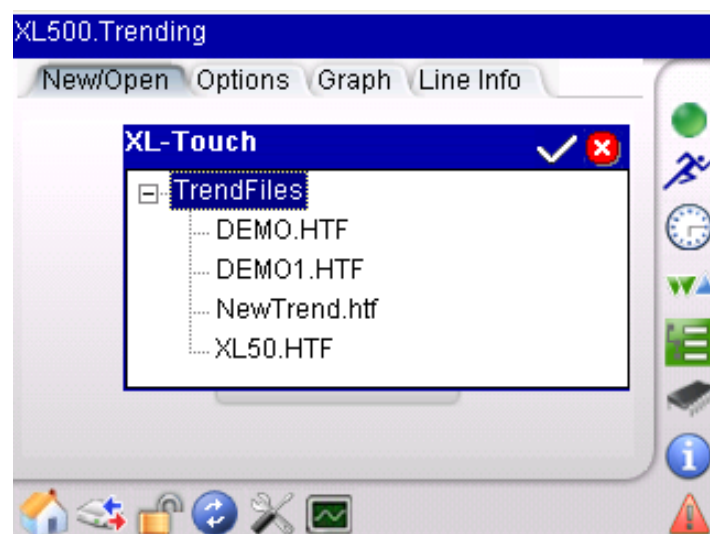


Fig. 60. Abrir un Archivo de Tendencia existente

Cerrar Archv. Tendencia

Permite cerrar el arvhivo de tendencia que este abierto en ese.

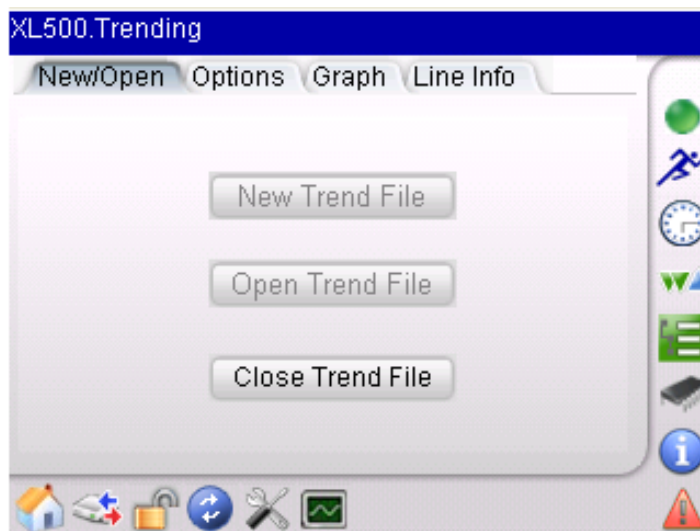


Fig. 61. Cerrar un Archivo de Tendencia

Opciones**Comenzar/Detener Grabación**

Con esta opción se puede comenzar o detener la grabación de valores de todos los puntos seleccionados.

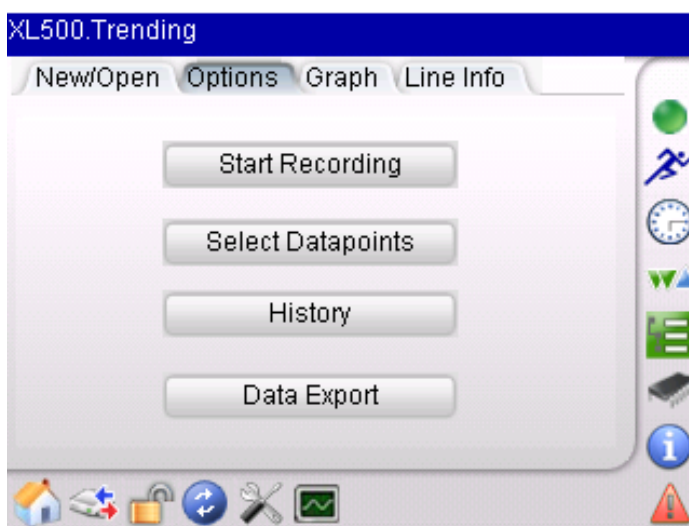


Fig. 62. Comenzar Grabación

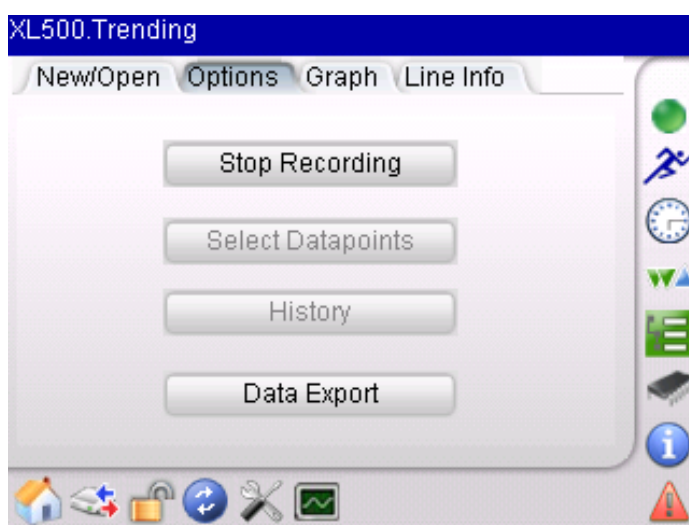


Fig. 63. Detener Grabación

Pulsando este botón la grabación comenzará o parará en segundo plano, por lo que el usuario no apreciará nada en especial.

Seleccionar Puntos

Permite elegir los puntos que se desean grabar en tendencia. Al pulsar este botón se accede a una pantalla donde se pueden seleccionar los puntos deseados marcando el checkbox del para cada punto en particular, además se puede cambiar el intervalo de sondeo del valor de los puntos en la columna de **Ciclo de Polling**. El ciclo de polling puede variar entre 1 segundo y 1 hora. Se puede realizar un filtrado de las señales utilizando el campo **Filtro**. Una vez se haya seleccionado los puntos deseados, pulsar **Iniciar**. Finalmente se muestra la pestaña Gráfico donde se visualizarán los gráficos generados en base a los valores de la señales guardados.

NOTA: Para que los puntos se visualicen en el gráfico, previamente hay que seleccionarlos en la pestaña *Info Trazas*.

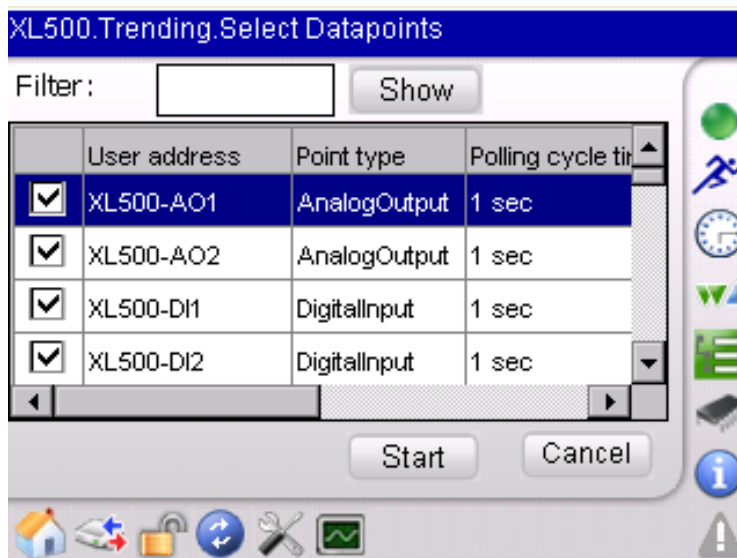


Fig. 64. Selección de puntos para Tendencias

Historia

Muestra un histórico de las grabaciones que contiene el archivo de tendencias abierto en ese momento. La pestaña *Registros en Fichero* muestra una lista de las grabaciones guardadas para ese archivo desde el momento que se creó. Los datos se representan en dos columnas, **Primer Valor** y **Último Valor**. Al pulsar **Ok** la pantalla se redirecciona a la pestaña *Gráfica*.

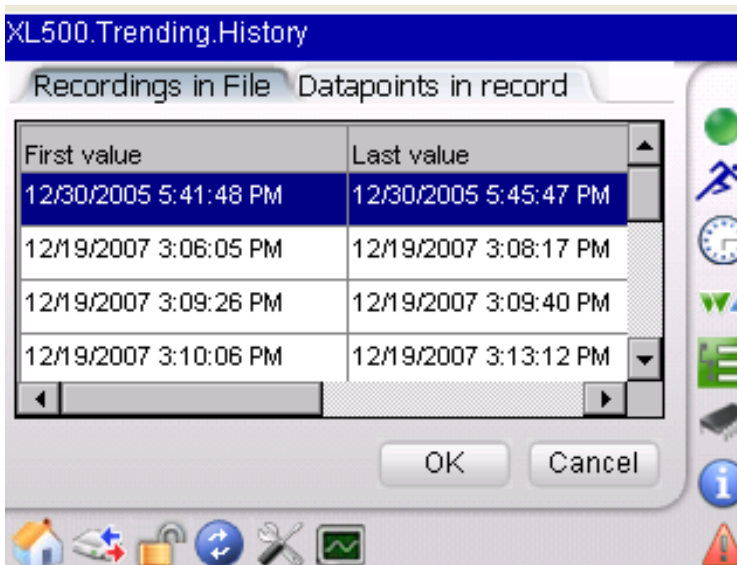


Fig. 65. Historia Tendencias

De forma similar Similar, the **Datapoints in record** tab shows the list of datapoints that have been added to the trend file from the time on when the file was created. The datapoints can belong to different controllers.

Data Export

Allows exporting the trend file in .csv format to the memory device. The *Recording* tab shows the list of recordings similar to the history screen. You can export a specific recording from this list by selecting the desired row and then tapping on the **Export** button, or export all the information by tapping the **Export All** checkbox and then tapping the **Export** button. You can also selecting the duration of the export data by choosing the appropriate date and times in the **From** and **To** combo boxes.

Similarly you can also export all the datapoints for the opened trend file using the *Datapoints* tab. All the exported information will be stored on the memory device in the *TrendFiles* folder. If this folder is not present on the device, you must create it.

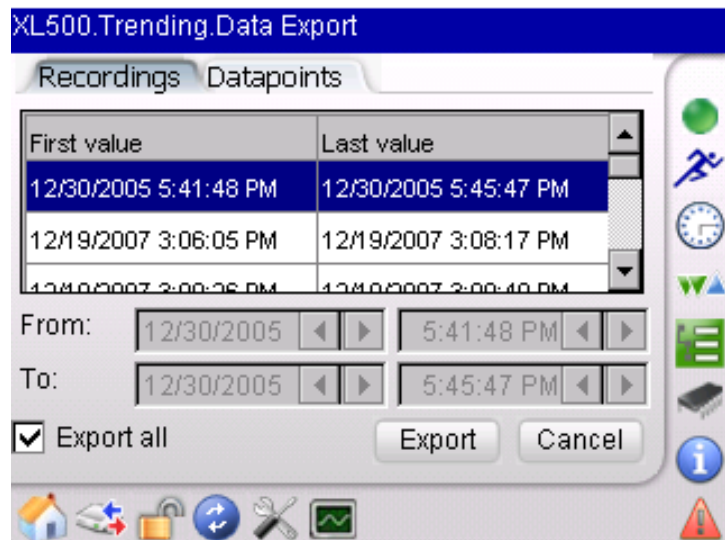


Fig. 66. Data Export

On tapping the **Export** button you are asked for the name of the file to be created so that the data of trending will be stored in CSV file format in the *TrendFiles* folder on the memory device. Enter the name of the file using input panel.

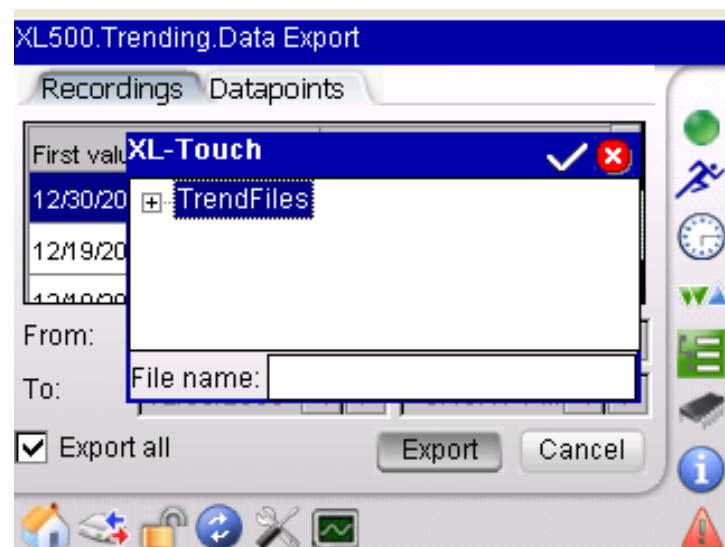


Fig. 67. Creating a file for Data Export

On successful exporting the trending data from the controller to the specified location on the memory device, a message box displays which indicates the amount of data in terms of line values that has been written to the newly created file.

Tap on the **Close** button to close the message box.

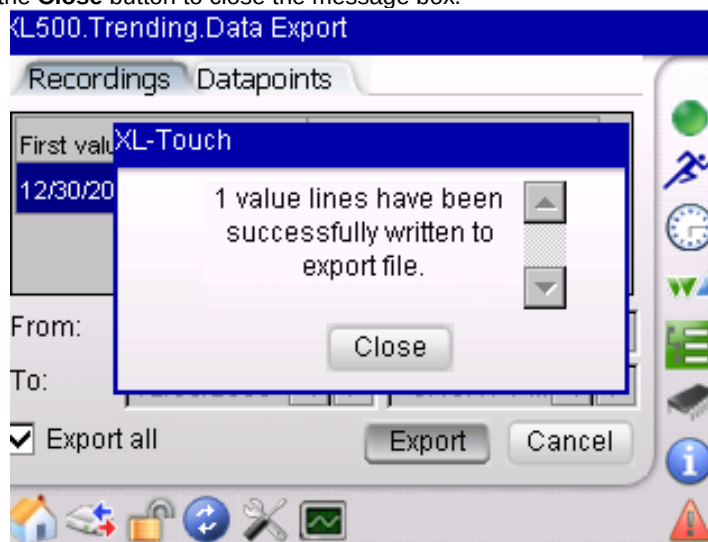


Fig. 68. Creating a file for Data Export

Graph

The *Graph* tab allows viewing the graphical presentation of the trended datapoint values for the recorded duration. Initially when no trend file is opened, the screen displays 'No Data' in light green color on the background of the screen. During recording, the background text changes to 'Recording' and if the recording is stopped, then the background text is displayed as 'Stopped'.

You can adjust the vertical axis by tapping on any of the trend lines and then scroll down the axis according to your needs. In the same way, you can adjust the horizontal axis by just holding the stylus on any position on the X-axis and just dragging it according to your needs.

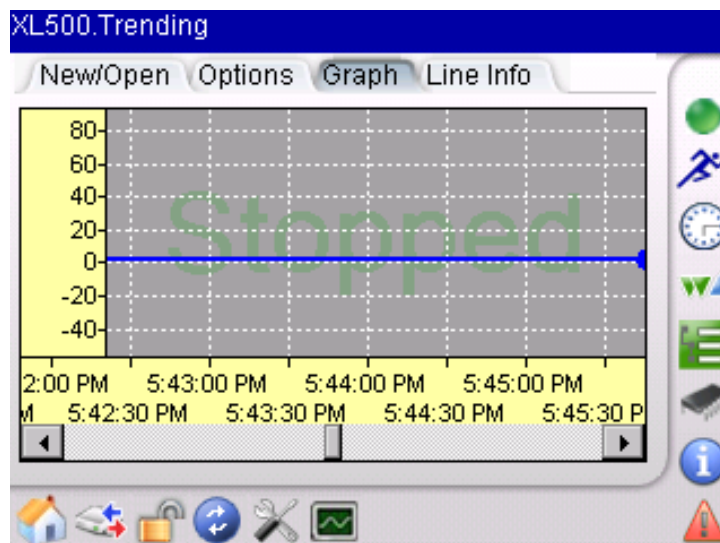


Fig. 69. Graph display

If you want to view a particular datapoint, then go to the *Line Info* tab and select/highlight the desired datapoint, and then switch back to the *Graph* tab to view that particular trend.

Line Info

Shows the selected datapoints (checked) displayed on the *Graph* tab along with the value of the point, the minimum and maximum scale values it will be represented on the *Graph* tab. You can vary these scale values by just tapping on them and entering the new values using the input panel.

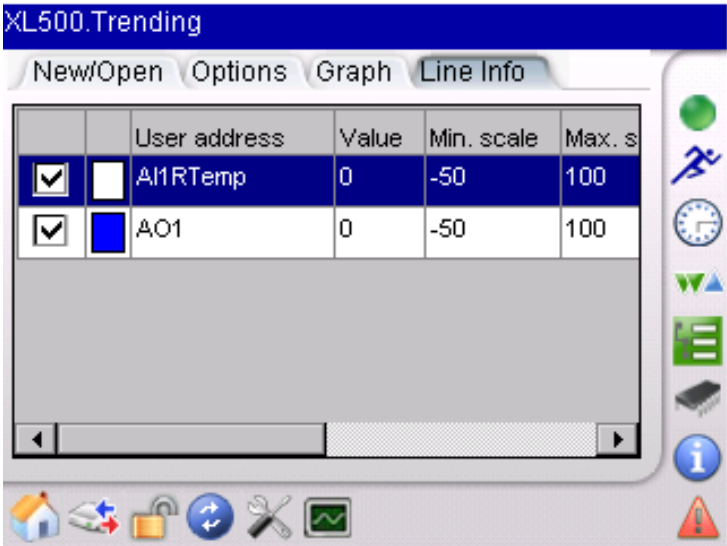


Fig. 61. Line Information

Alarms

Alarms can be checked by selecting the  icon. Here you can view details of active alarms, alarm history, as well as bus-wide alarms. Alarms cannot be acknowledged via the Xl882 user interface, but only via a front-end, like EBI, SymmetrE etc.

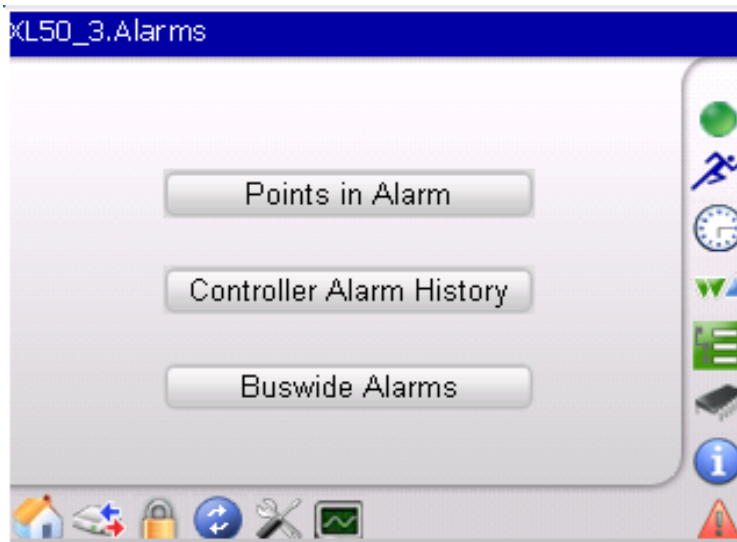


Fig. 70. Alarms

Tapping the **Points in Alarm** button shows active alarms i.e. alarms that are currently active/on. Each alarm is displayed by Date, Time and Datapoint name. From the **Alarm Type** drop-down list box, you can tap alarms per severity (critical/non-critical) and system alarms.

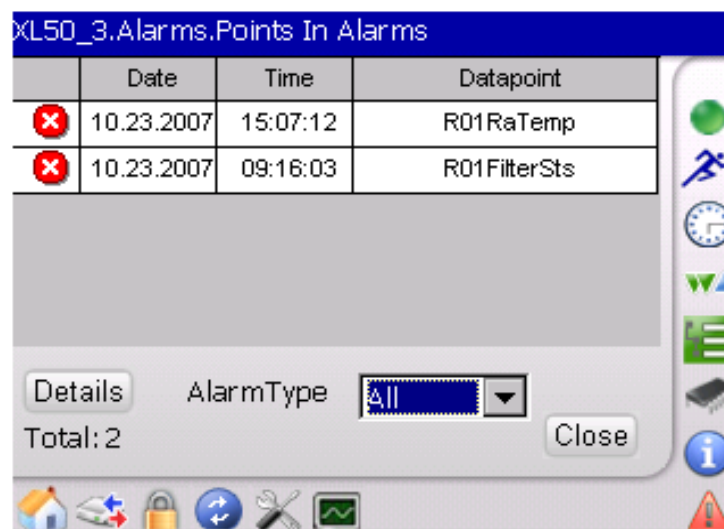


Fig. 71. Points in Alarm

To view more details about an alarm, tap the alarm in the list, and then tap **Details** button. The details show the alarm severity, controller that has generated the alarm, etc.

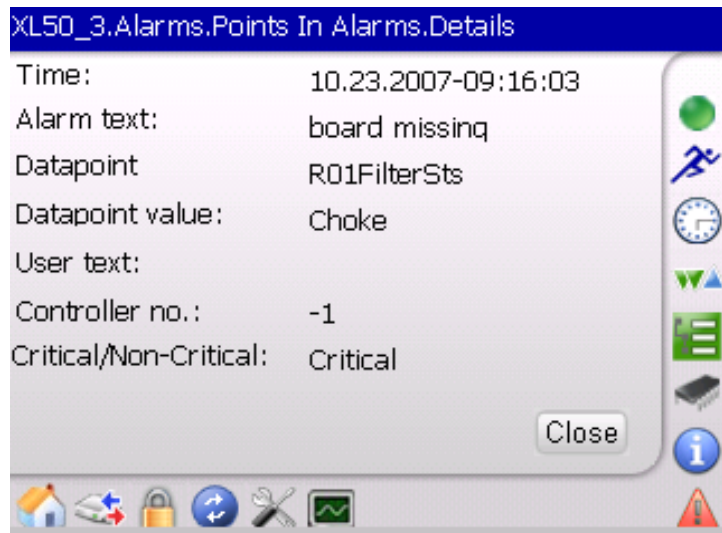


Fig. 72 Alarm Details

You can view all the alarms that have been generated in the past using the **Controller Alarm History** button. The XI882 requires some time to access the history and hence displays the message 'Loading Alarm History' while retrieving history details. Tapping **Close** button in the message box allows proceeding to another screen if you do not want to wait the time while software retrieves the complete history from the controller. The message box will automatically disappear after the history loading is completed.

Maximum the last 99 alarms can be retrieved from the controller.

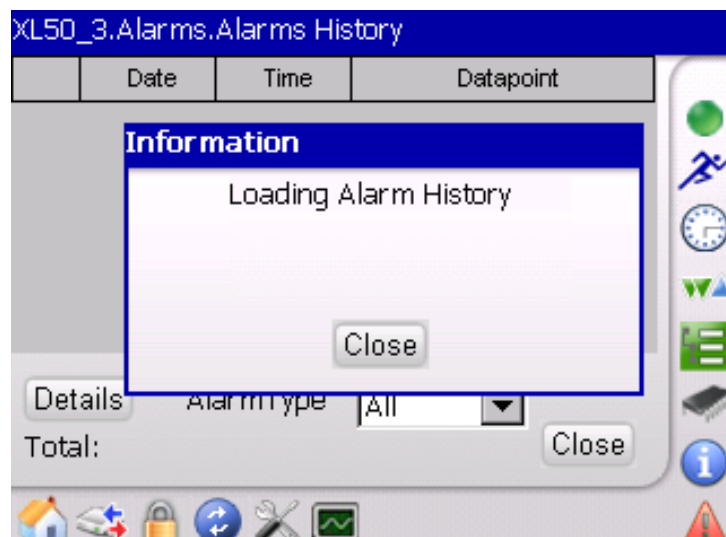


Fig. 73. Alarm History

In the *Alarms History* screen each alarm is displayed by Date, Time and Datapoint name. From the **Alarm Type** drop-down list box, you can tap alarms per severity (critical/non-critical) and system alarms. To view more details about an alarm, tap the alarm in the list, and then tap **Details** button. The details show the alarm severity, controller that has generated the alarm, etc.

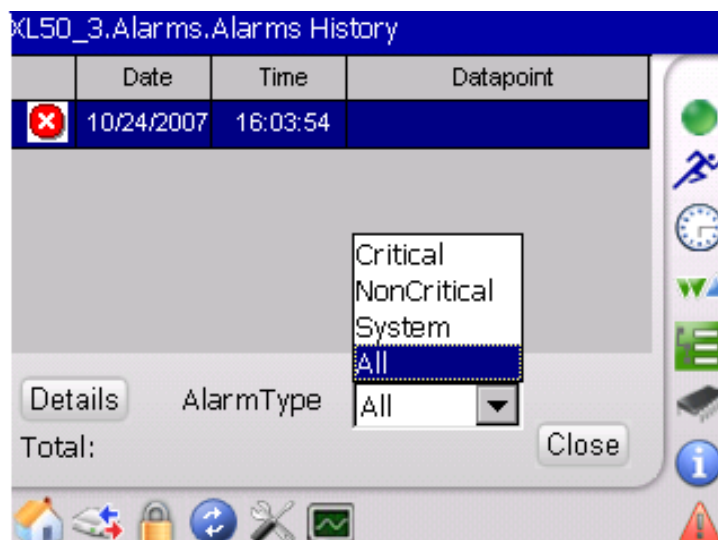


Fig. 74. Alarms History

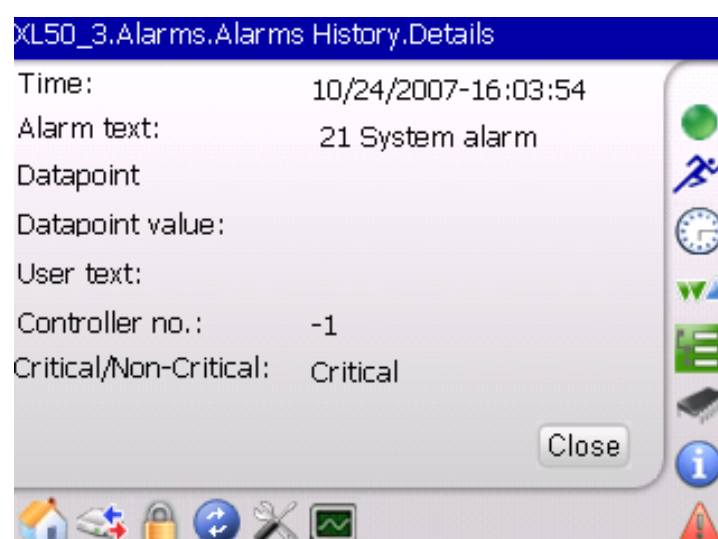


Fig. 75. Alarm Details

Bus-wide alarms can be viewed by selecting the **Bus-wide Alarms** button from the Alarms screen. Bus-wide alarms are alarms generated from controller(s) that are not physically connected to the XI882 but reside on the same network and are logically connected to it over the network.

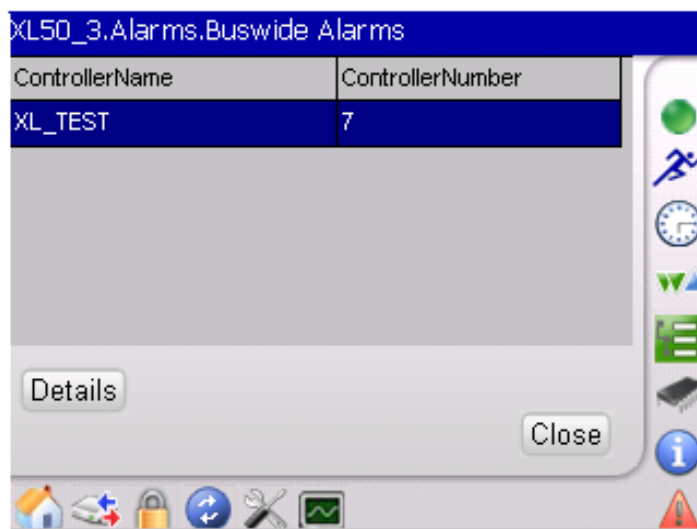


Fig. 76. Bus-wide Alarms

In the *Bus-wide Alarms* screen, tap on the controller on the list of which alarms you want to see. Then tap **Details** button. In the following screen each alarm is displayed by Date, Time and Datapoint name. From the **Alarm Type** drop-down list box, you can tap alarms per severity (critical/non-critical) and system alarms.

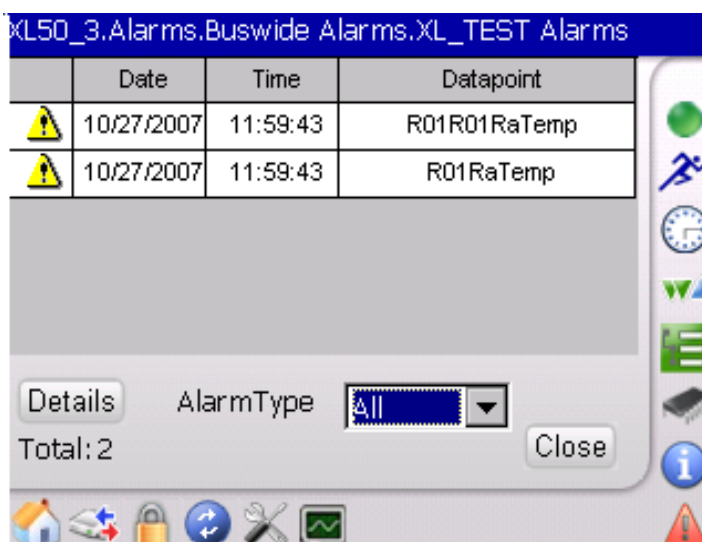


Fig. 77. Bus-wide Alarms List

To view more details about an alarm, tap the alarm in the list, and then tap **Details** button. The details show the alarm severity, controller that has generated the alarm, etc.

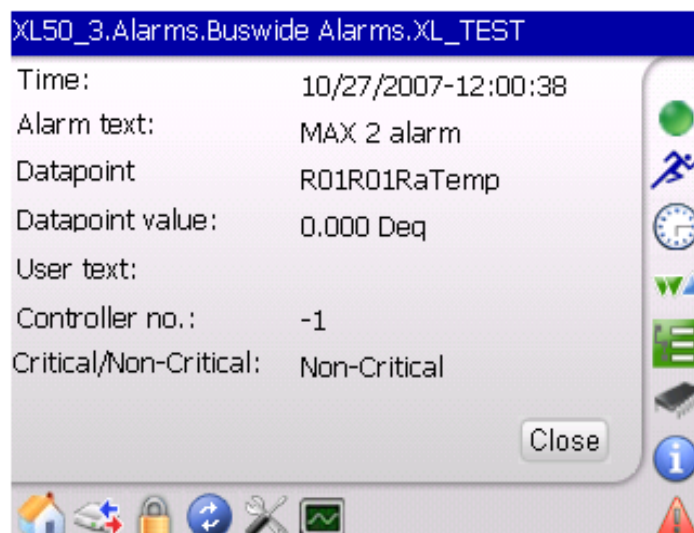


Fig. 78. Bus-wide Alarms Details

Information

Controller information can be viewed by tapping the  icon. Information can be viewed in detail by tapping one of the following buttons:

- Details
- Application Status
- Application Parts

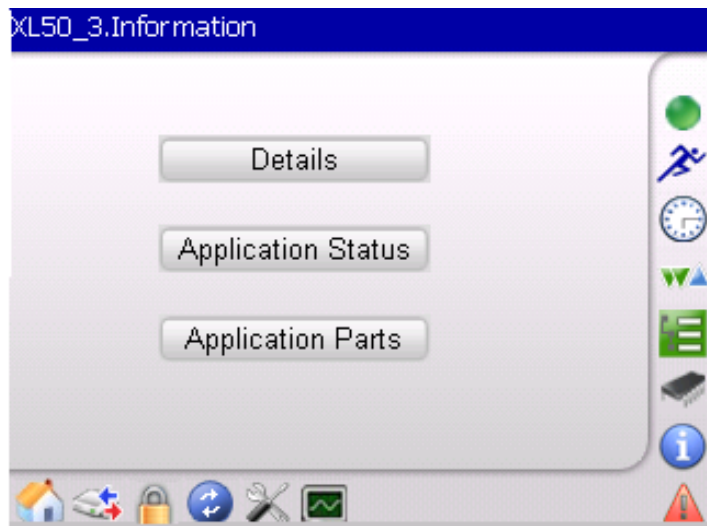


Fig. 79. Controller Information screen

Information is only displayed and cannot be edited.

Details

When tapping **Details** button, detailed information about the controller such as Country code, Controller name, Program name, Controller number, Current version of the firmware loaded on the controller, etc. is shown.

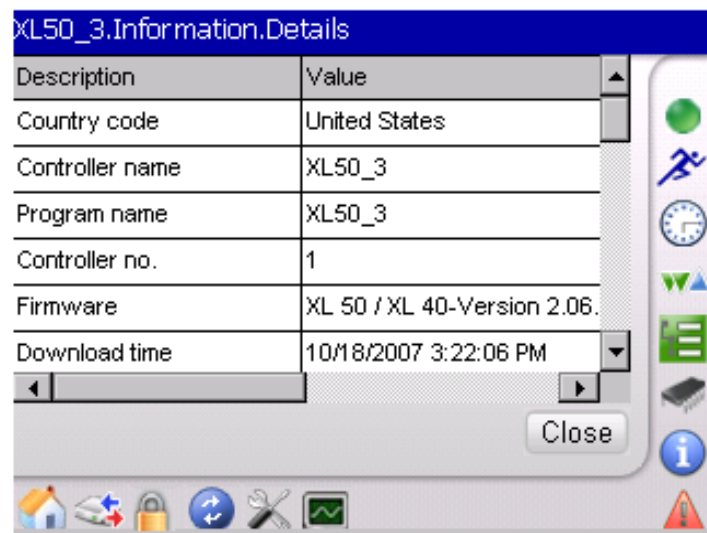
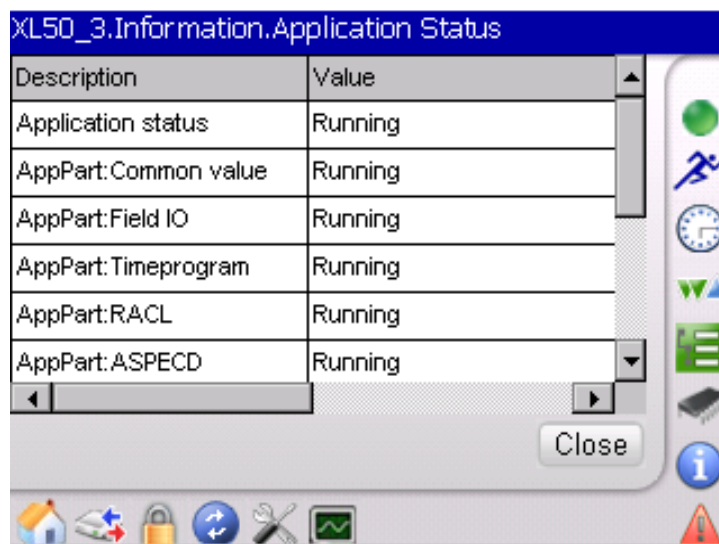


Fig. 80. Controller Information Details

Application Status

When tapping **Application Status** button, details of the application currently running in the controller is shown. The Value (status) of the application and application parts is either running or stopped.

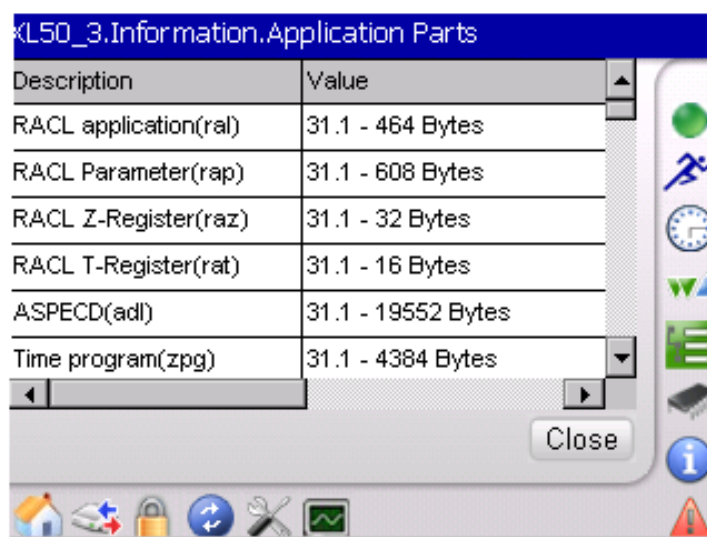


Description	Value
Application status	Running
AppPart:Common value	Running
AppPart:Field IO	Running
AppPart:Timeprogram	Running
AppPart:RACL	Running
AppPart:ASPECD	Running

Fig. 81. Controller information Application Status

Application Parts

When tapping the **Application Parts** button, the screen shows the values (**Value** column) in number of RAM Bytes of all currently running application parts (**Description** column).



Description	Value
RACL application(ral)	31.1 - 464 Bytes
RACL Parameter(rap)	31.1 - 608 Bytes
RACL Z-Register(raz)	31.1 - 32 Bytes
RACL T-Register(rat)	31.1 - 16 Bytes
ASPECD(adl)	31.1 - 19552 Bytes
Time program(zpg)	31.1 - 4384 Bytes

Fig. 82. Controller Information Application Parts

Controller

You can download/upload applications, download firmware to the controller and load programs in the FLASH EEPROM tapping the **Controller** button . The corresponding *Controller* screen provides the following functions:

- Application
- Firmware Download
- Flash EEPROM



Fig. 83. Controller options

Application

Tapping the **Application** button allows starting the actual application in the controller or stopping the application already running in the controller.

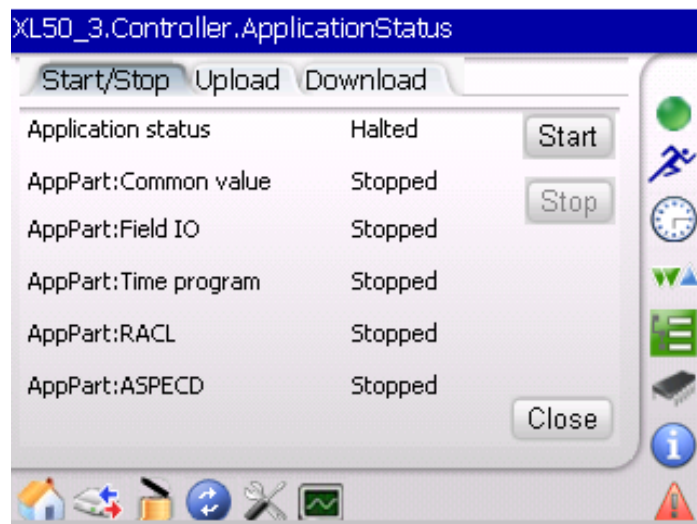


Fig. 84. Controller Application START/STOP

To start the application, tap the **Start** button, to stop the application tap the **Stop** button.

Upload tab

Applications can be uploaded from the controller using this tab.

NOTE: Alarm polling stops during application upload/download.

Prerequisite

- 1) A USB memory device must be inserted into the touch-panel.
- 2) On that USB memory device the directory "ApplicationUploadFiles" must be present (to be created with Laptop or PC beforehand).

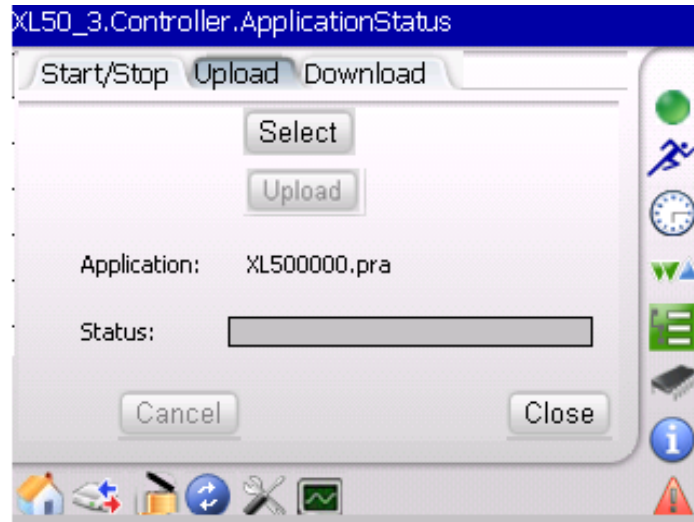


Fig. 85. Application Upload Screen

Initially the **Upload** button is disabled as no destination folder is selected. Tap the **Select** button and choose the destination folder.

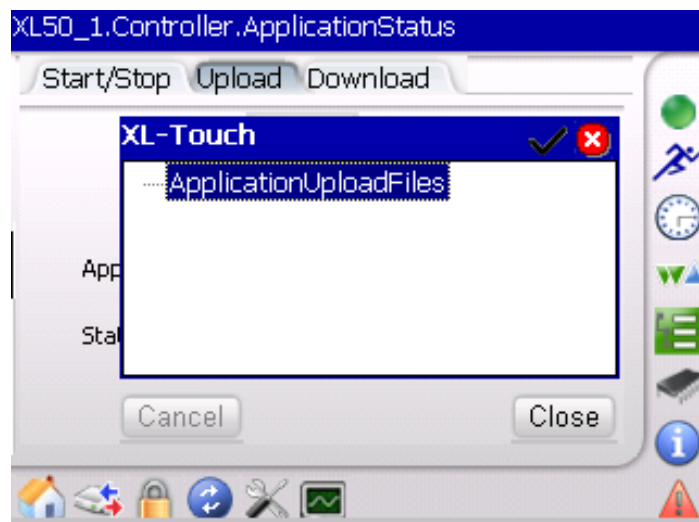


Fig. 86. Target folder selection Screen

The folder *ApplicationUploadFiles* needs to be created on the USB memory device if it is not present, otherwise an already existing folder is shown. Tapping the 'tick mark' will select the folder and allows you to upload the files by tapping the **Upload** button.

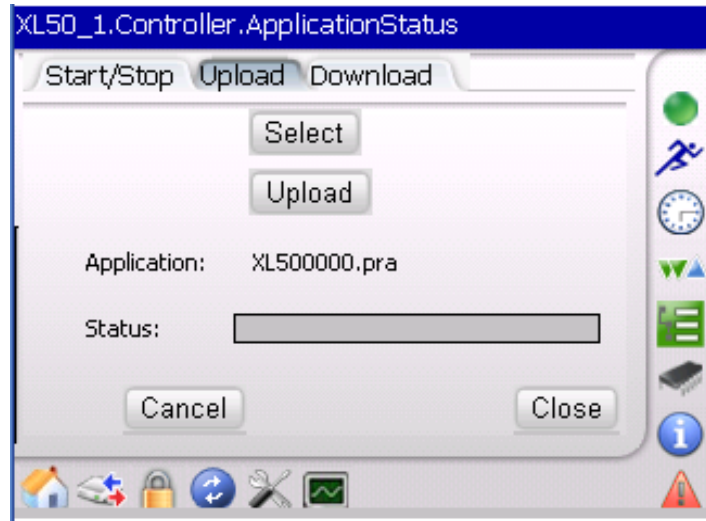


Fig. 87. 'Upload' enabled after selecting destination folder

Download tab.

Applications can be downloaded from the XI882 MMI using this tab.

NOTE: Alarm polling stops during application upload/download.

Prerequisite

- 1) A USB memory device must be plugged into the touch-panel.
- 2) On that USB memory device the directory "ApplicationDnloadFiles" must be present (to be created with Laptop or PC beforehand).

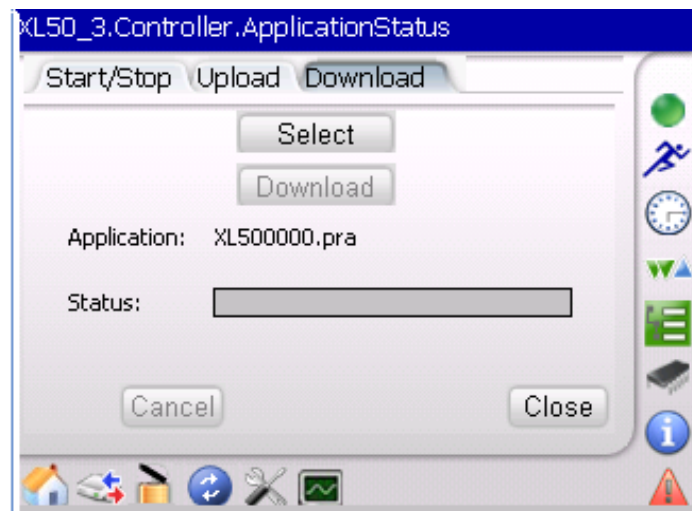


Fig. 88. Application Download Screen

Tap the **Select** button and select the desired ".pra" file from the location on the XI882. Then tap **Download** button to download the file to the Excel 500 series controller. The **Download** button is initially disabled as the target file is not selected. If the destination folder *ApplicationDnloadFiles* is not present on the USB memory device, an error pops up. Tap **Close** button in the message box and create the specific folder on the USB memory device.

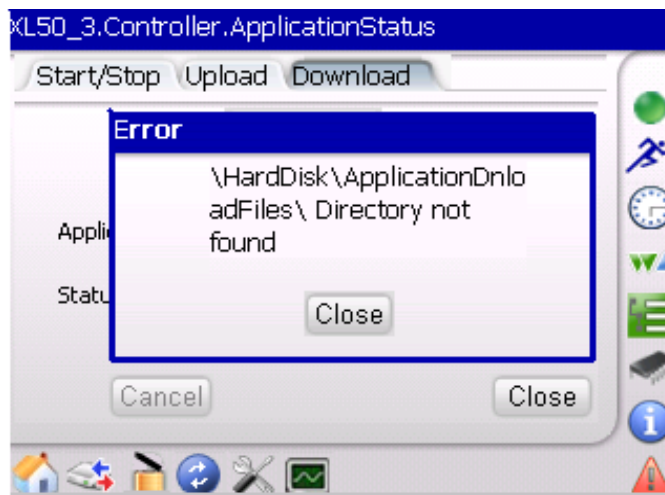


Fig. 89. Error message for destination folder

If the folder already exists on the drive, the screen as shown below is displayed. Tapping 'tick mark' selects the .pra file in the folder and enables the **Download** button. The 'wrong mark' will cancel the operation.

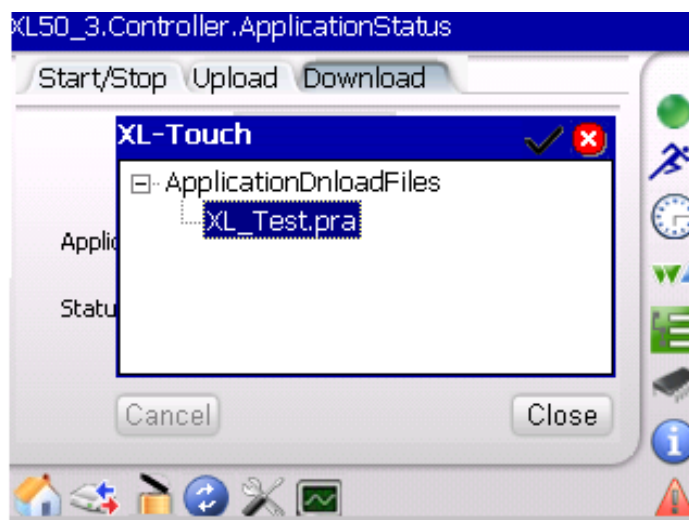


Fig. 90. Selection of Destination folder for download

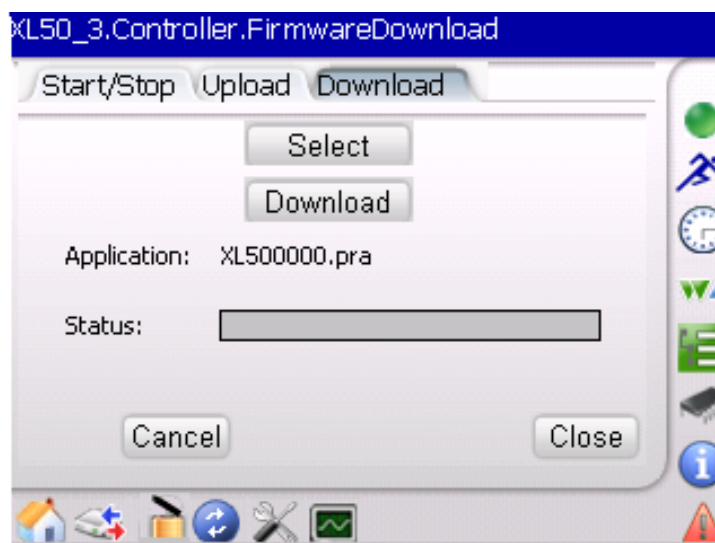


Fig. 91. 'Download' enabled after selecting destination folder

At any time during upload/download you can tap **Cancel** button to abort the upload/download. Tap **Yes** button in case you have start cancelling the process and really want to abort the upload/download.

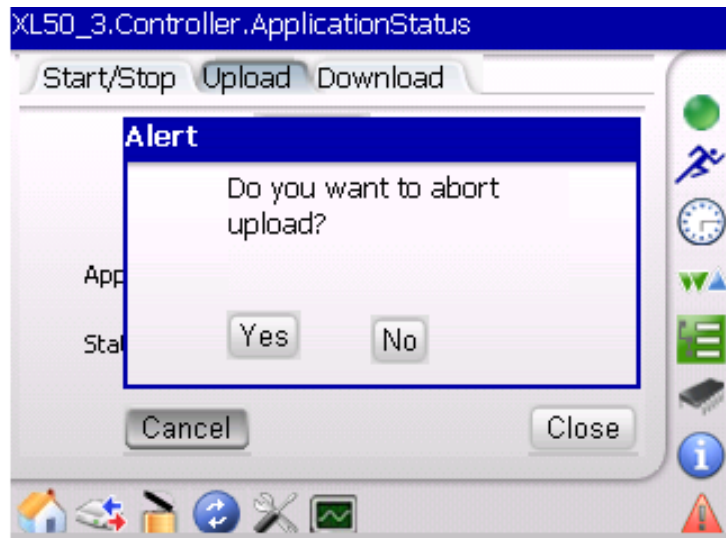


Fig. 92. Cancel request confirmation

Firmware Download

You can view firmware details by tapping the **Firmware Download** button in the *Controller* screen.

Firmware tab

This tab gives information about the currently loaded firmware.

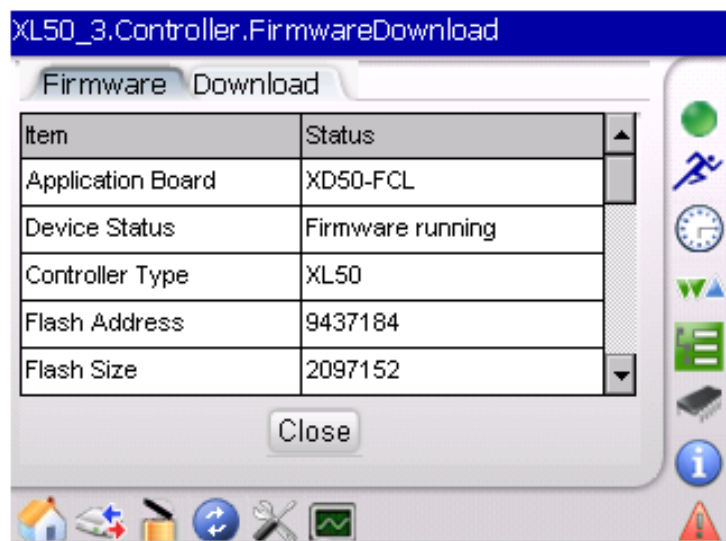


Fig. 93. Firmware Details

Tap **Close** button after viewing the firmware information.

Download tab

Prerequisite

- 1) A USB memory device must be plugged into the touch-panel.
- 2) On that USB memory device the directory "FirmwareDnloadFiles" must be present (to be created with Laptop or PC beforehand).

Here you can download the firmware into the controller. Tap **Select** button and choose the appropriate firmware file for downloading to the controller. If the destination folder *FirmwareDnloadFile* is not present on the USB memory device, an

error pops up. Tap **Close** button in the message box and create this specific folder on the destination disk.

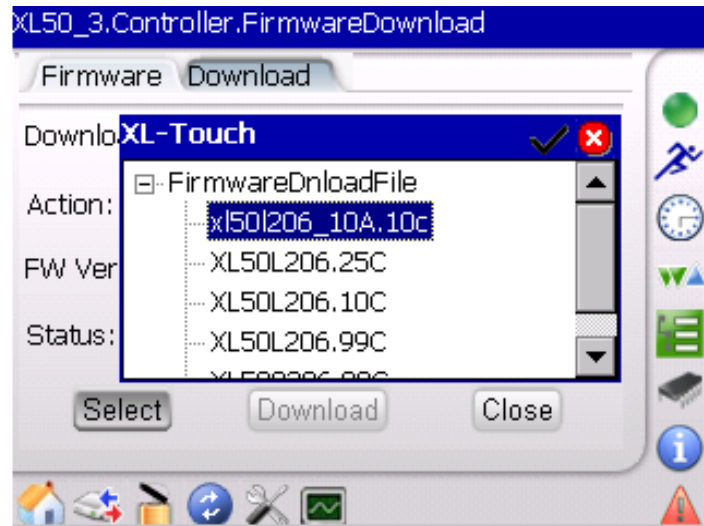


Fig. 94. Selecting file for Firmware Download

Tap the **Download** button to start the download.

After you have selected the firmware, the following screen shows the file path, the action currently being executed while downloading, the version of the firmware being downloaded and the overall status of the process.

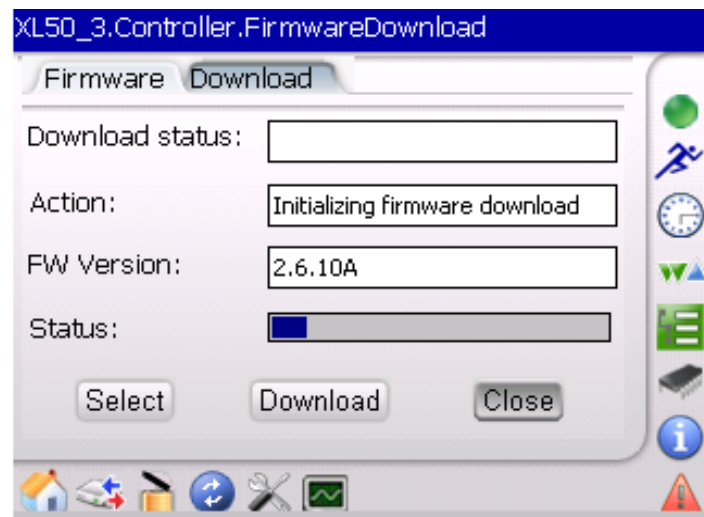


Fig. 95. Firmware Download

FLASH EEPROM

Tapping the FLASH EEPROM button in the *Controller* screen provides the following functions:

- Save the application to the FLASH EEPROM
- Erase the application from the FLASH EEPROM
- Load the application from the FLASH EEPROM



Fig. 96. Controller FLASH EEPROM options

When tapping the **Save Application** button, the current application is saved to the FLASH EEPROM. The following message is displayed after completion. Click **Close** button in the message box.

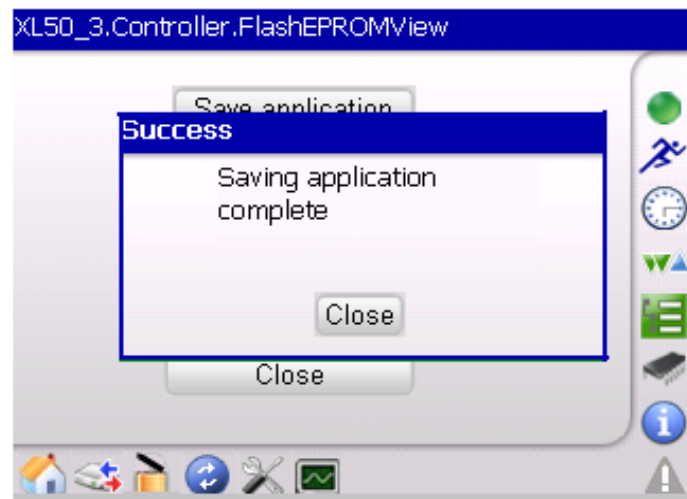


Fig. 97. Saving Application to the FLASH EEPROM

When tapping the **Erase Application** button, all the applications on the FLASH EEPROM are erased. The following message is displayed after completion. Click **Close** button in the message box.

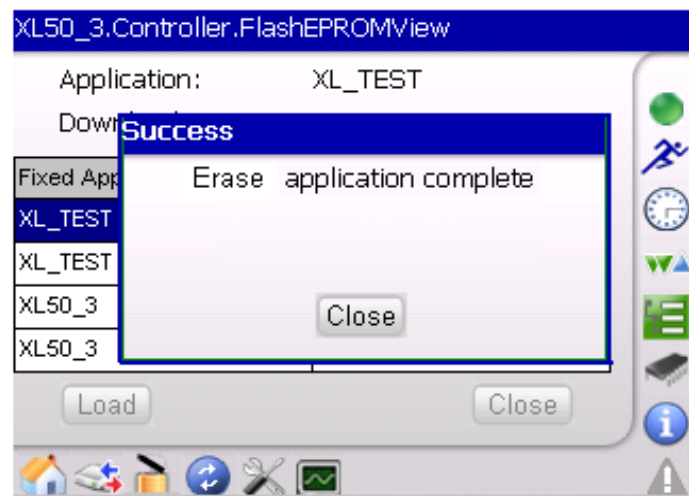


Fig. 98. Erasing Application from the FLASH EEPROM

When tapping the **Load Application** button, you can load an application from the FLASH EEPROM. The fixed applications available on the FLASH EEPROM are displayed. Tap the application you want to load in the list, and then click **Load** button.

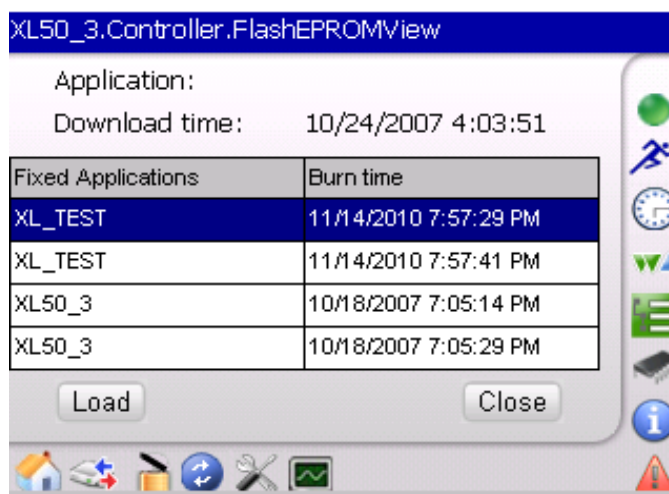


Fig. 99. Loading Application from the FLASH EEPROM

After successful loading of the application, a message window pops up indicating that the application has been loaded. Click **Close** button in the message box.

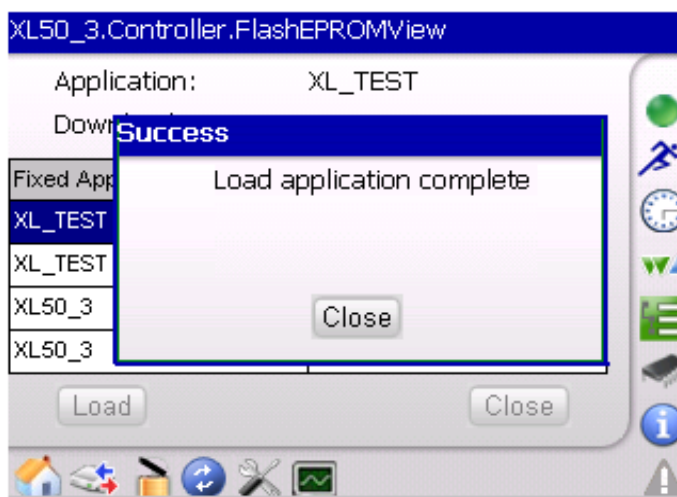


Fig. 100. Loading Application Complete

Puntos

NOTA: Tras una vuelta de tension, se vuelven a cargar los puntos. La recarga de puntos se indica con el mensaje 'Loading datapoints.....'.

El icono  muestra la información de puntos en pantalla.

Cuando se presiona por vez primera el icono de puntos, el XI882 precisa un tiempo para cargar todos los puntos, y mientras esta carga se completa se muestra el mensaje 'Loading Datapoints'.. Este mensaje desaparece automáticamente cuando se termina la carga.

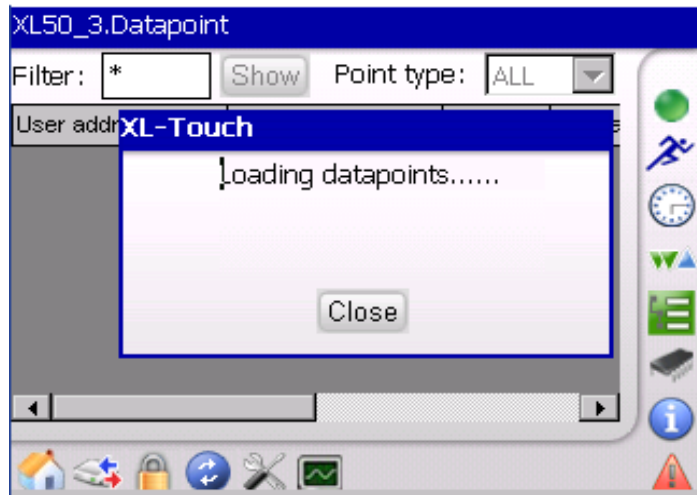


Fig. 101. Cargando puntos

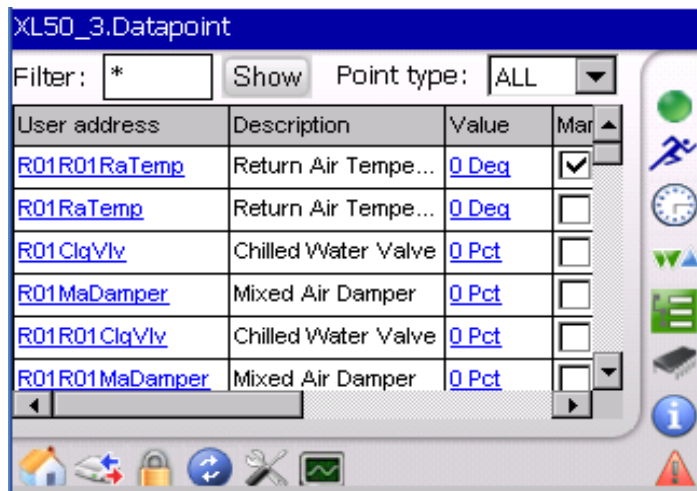


Fig. 102. Pantalla de puntos

El campo **Filtro** se puede usar para encontrar y visualizar puntos específicos que se quieren ver/modificar. Así, poniendo 'S', se listarán todos los puntos que empiecen con s. Para filtrar para ciertos nombres de puntos, introducir las letras deseadas para la búsqueda y presionar el botón **Show**.

El ancho de la columna se puede ajustar moviendo la línea de separador de columnas a derechas o izquierdas

El tipo de líneas se puede modificar presionando en la cabecera de columna. La flecha a la derecha de la columna indica el orden ascendente o descendente.

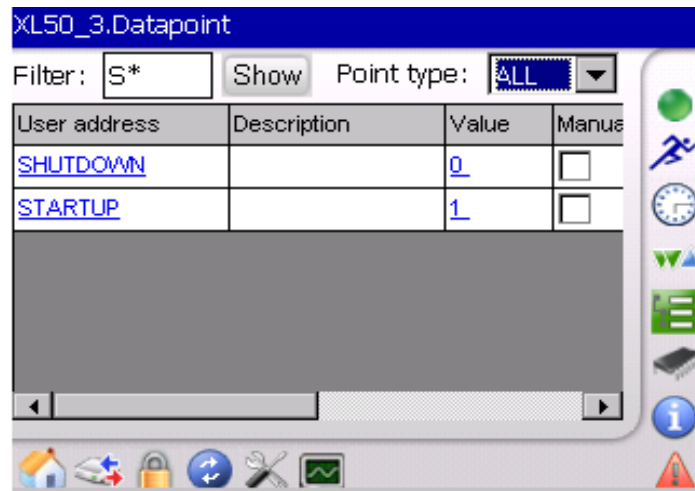


Fig. 103. Puntos Filtrados

Además del filtrado de los nombres de los puntos, se pueden filtrar los puntos según su tipo en la lista **Point type** de acuerdo a la siguiente tabla:

- AI – Entrada Analógica
- AO – Salida Analógica
- DI – Entrada Digital
- DO – Salida Digital
- AR – Remotas Analógicas
- AV – Valor Analógico
- DR – Remotas Digitales
- DV – Valor Digital
- CI – Entrada Contadora
- CV – Valor Contadora
- FP– Punto Flexible

Picar en la caja de **Point type** y seleccionar el tipo de punto de la lista.

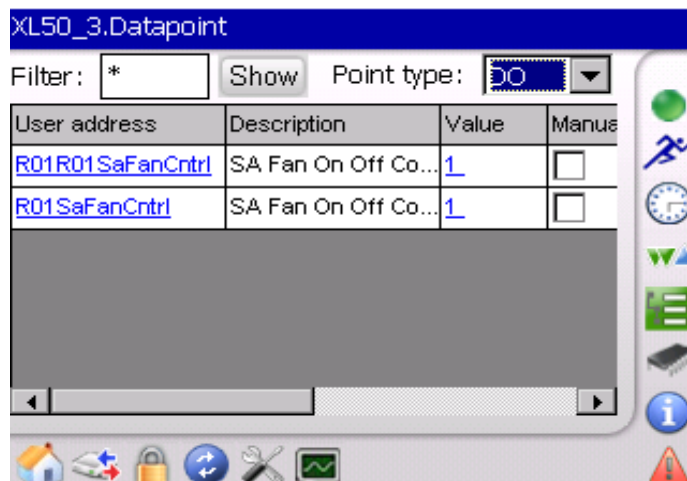


Fig. 104. Tipo de Punto Filtrado 'DO'

Se puede ahora seleccionar un punto y sus detalles (atributos) se pueden ver/modificar picando el nombre en la columna **User address**.

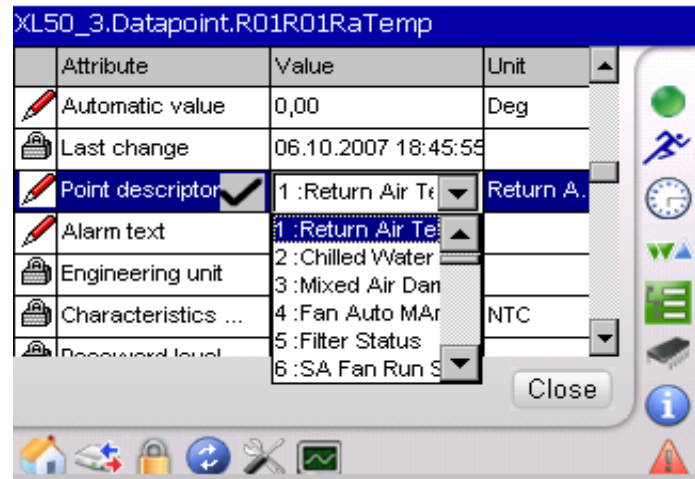


Fig. 105. Atributos del punto

Los atributos con un Lápiz en la columna **Atributos** se pueden modificar, mientras los que se simbolizan con un cerrojo no se pueden modificar. Para cambiar un valor, picar en la columna de Valor, seleccionar el nuevo valor y picar el marcador de la columna **Attribute**

NOTA: El offset de sensor no se puede modificar.

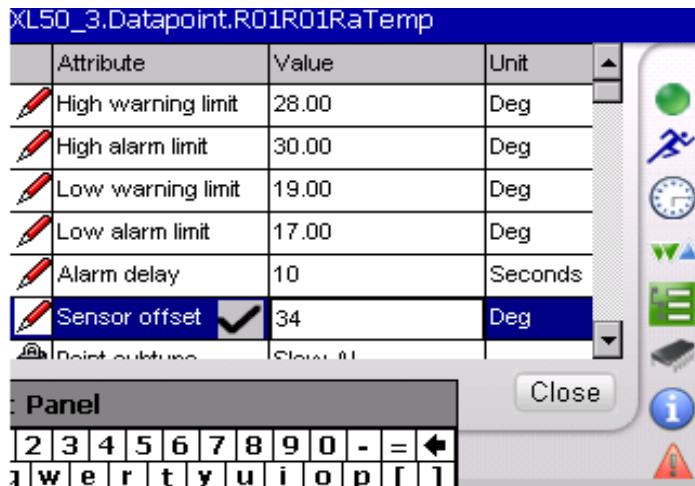


Fig. 106. Atributos de punto

También se puede seleccionar un valor de punto automático a mano. Picar en la columna de **Value** del punto. En el cuadro de diálogo Value, seleccionar el botón **Manual**, introducir el nuevo valor con la ayuda del panel de entrada, y luego picar en el botón **OK**.

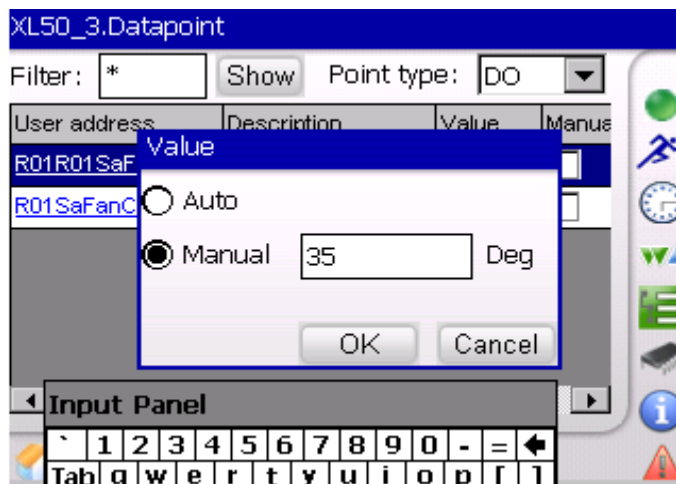


Fig. 107. Forzar valores manuales en Puntos

Parámetros

NOTA: Tras una vuelta de tensión, se vuelven a cargar los parámetros. Esta carga se indica con el mensaje 'Loading parameters....'.

El icono  de parámetros muestra los parámetros del controlador conectado. Para cada parámetro se muestran las siguientes propiedades:

- Planta a la que pertenece el parámetro
- Submódulo de la planta
- Lazo de control usado en el submódulo
- posición
- otros

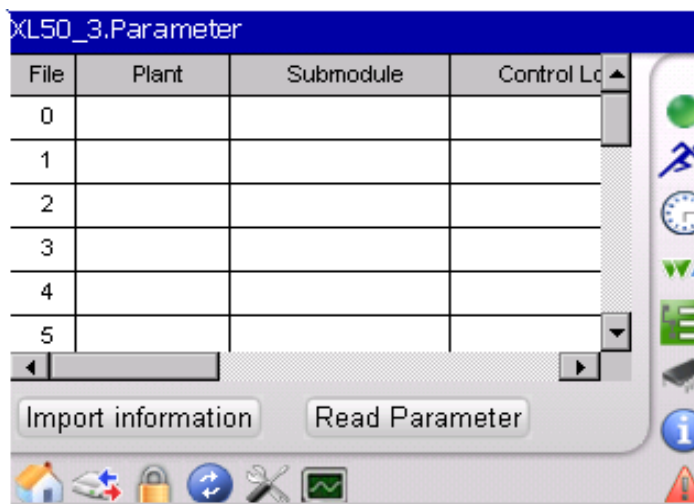


Fig. 108. Parámetros

Prerrequisitos

- 1) Hay que enchufar una memoria USB a la pantalla-táctil.
- 2) En la memoria USB debe existir el directorio "ParameterFiles" (crearlo previamente).

En el PC del CARE buscar la carpeta del proyecto y copiar los ficheros de parámetros (.txt) de cada controlador en el directorio "ParameterFiles" de la memoria USB. Si se quiere, editar/traducir los ficheros de parámetros usando un editor de texto.

Picar el botón **Import Information**.

Seleccionar el fichero *.TXT* apropiado de la lista y picar el símbolo de marcado. Picar la cruz para cancelar la operación.

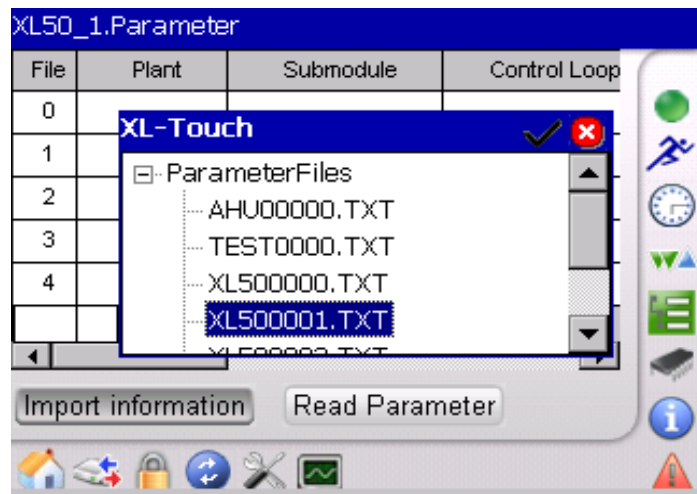


Fig. 109. Importar Información

Tras seleccionar el fichero, los parámetros se cargarán como se muestra en la siguiente pantalla.

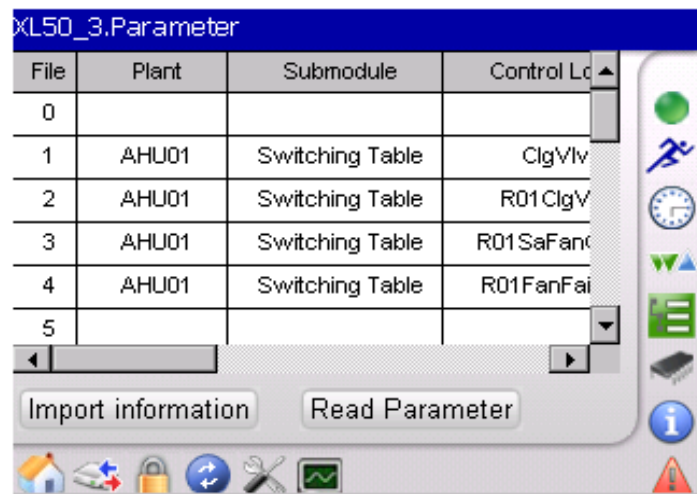


Fig. 110. Parámetros Importados

Para ver los detalles de parámetro del fichero de parámetros, seleccionar el fichero de parámetros en la pantalla *Parameters* y picar en el botón **Read Parameter**. La pantalla muestra todos los parámetros contenidos en el fichero con su número, descripción, valores y referencia.

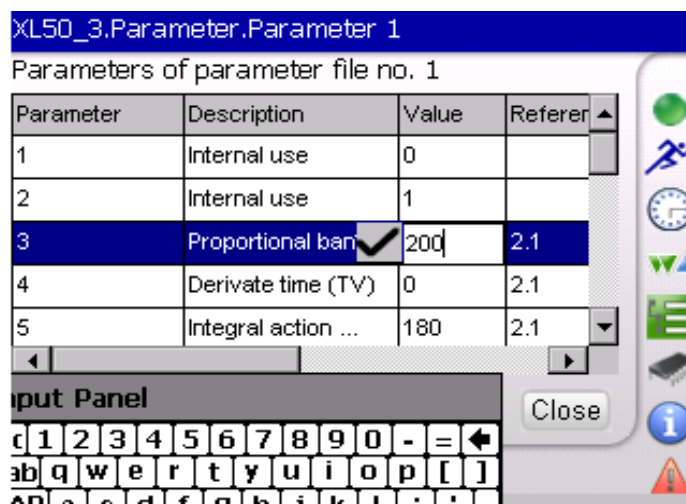


Fig. 111. Leer Parámetros

Programas Horarios

NOTA: Tras vuelta de alimentación se vuelven a cargar los programas horarios. Esta recarga se indica con el mensaje "Loading time programs....".

El icono  de horarios permite acceder a todos los programas horarios disponibles en el controlador.

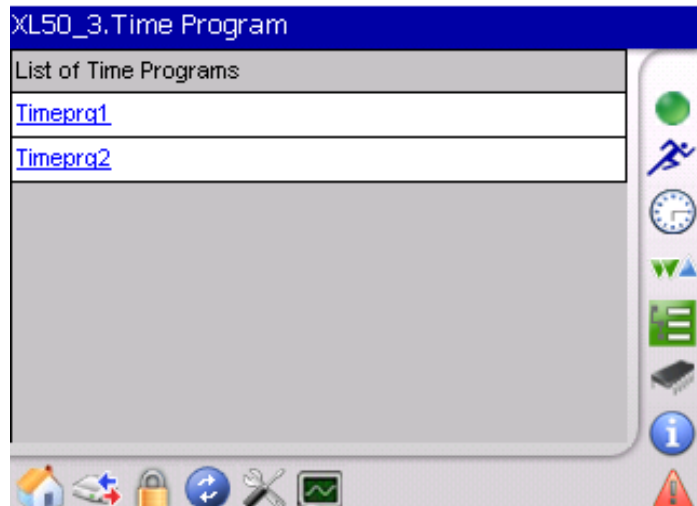


Fig. 112. Programas Horarios

Para acceder a un programa horario picar en el título del programa horario de la lista de programas horarios.

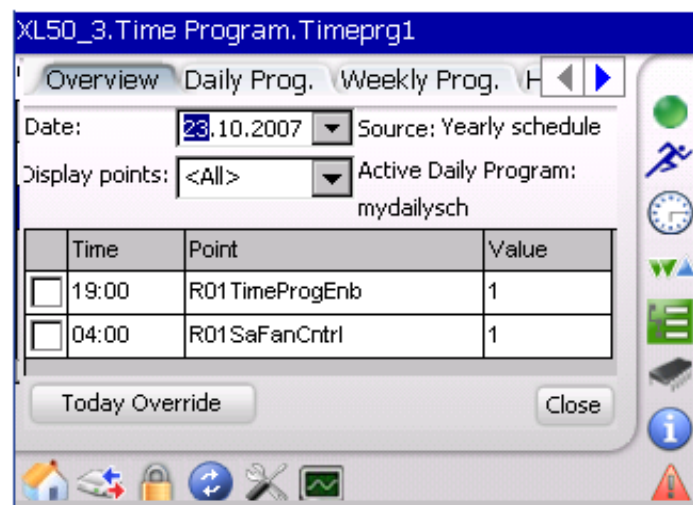


Fig 113. Vista de Programas Horarios

Picar Overview

Esta pestaña muestra puntos de cambio del programa horario válidos para el día seleccionado en la lista desplegable **Date**. Picando y seleccionando de la lista desplegable **Display points** se pueden ver todos los puntos o filtrarlos de acuerdo al tipo, tales como AI, AO, DI, DO, etc. La pantalla también muestra la fuente del programa horario y el programa diario activo utilizado. Para cada punto de cambio se muestran su Hora, nombre del punto y Valor en la Tabla.

Para sobrescribir un punto de cambio picar la correspondiente caja en la primera columna del punto de cambio, y picar sobre el botón **Today Override**. Se mostrará la pantalla *Today Overrides*.

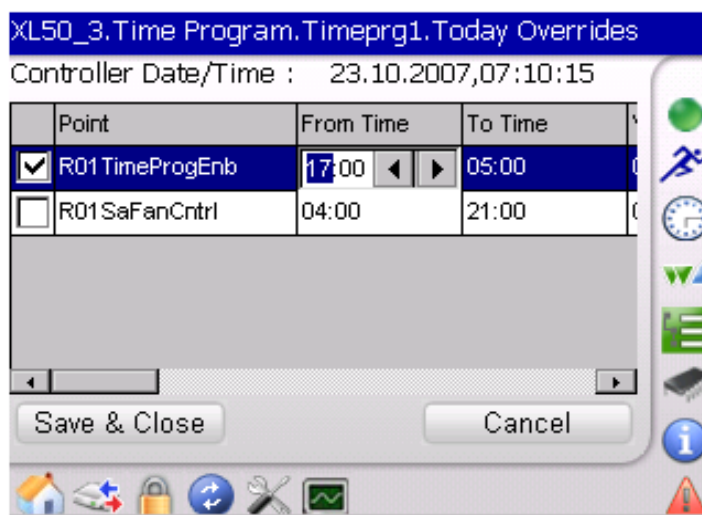


Fig. 114. Programa Horario Sobremando Día

En las columnas **From Time** y **To Time** introducir las fechas que definan el período de tiempo de sobremando de valores de un programa horario. En la columna **Value** introducir los valores de sobremando.

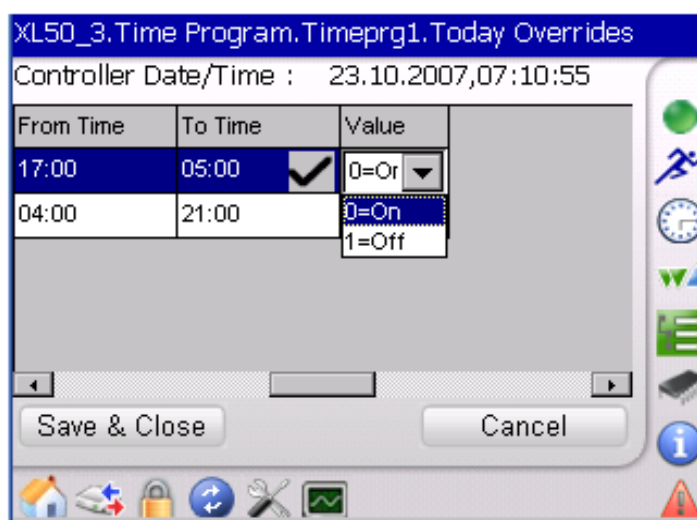


Fig. 115. Sobremando Programa Horario

Picar la caja del punto de cambio en la primera columna. Sólo se sobrescribirá el punto de cambio si está marcado. Picar el botón **Save & Close**.

Daily Prog

Este campo muestra los programas diarios en uso. Se pueden crear nuevos programas diarios, borrarlos y borrar puntos de cambio del programa diario.

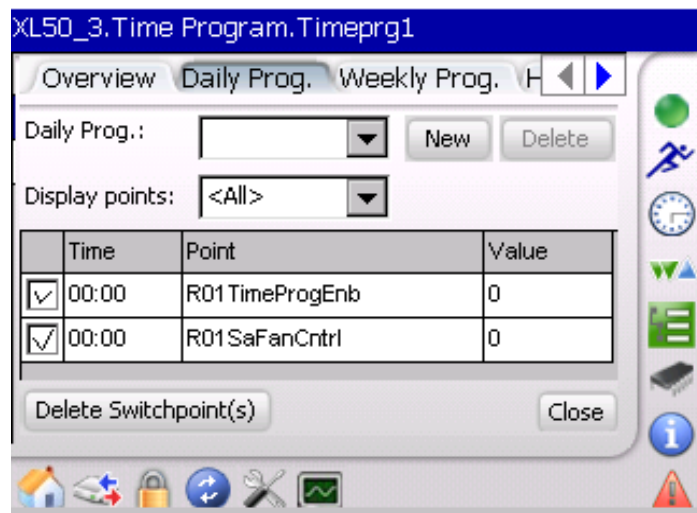


Fig. 116. Programa Diario

Picar en **Daily Prog.** Seleccionar de la lista desplegable el programa diario del que los puntos de cambio se quieran ver o borrar.

Picar en **Display Points** De la lista desplegable, seleccionar el tipo de punto (AI, AO, DI, DO, etc.) que se quiere ver.

Para borrar puntos de cambio, activar el marcador de la caja del punto de cambio que se quiere borrar en la primera columna.

Picar el botón **Delete Switchpoint(s)**.

Para crear un nuevo programa diario, picar el botón Nuevo.



Fig. 117 Nuevo Programa Diario

En la pantalla *New Daily Program* , introducir el nombre en el campo **Daily program name**.

Picar en **Copy Time Program From** y de la lista desplegable seleccionar un programa horario ya existente que debería aportar los puntos de cambio para el Nuevo programa horario.

Picar el botón **Save & Close**.

Para borrar un programa horario diario, picar en *Daily Prog.*

Picar en **Daily Prog.** y de la lista desplegable seleccionar el programa diario que se quiere borrar.

Picar el botón **Delete**

NOTA: Antes de borrar un programa diario, asegurarse de que el programa diario que se va a borrar no está referenciado a ningún otro programa horario. Si lo estuviera, no se permitirá borrar dicho programa.

Para completar el borrado del programa diario, picar en el botón **Yes** de la siguiente ventana.

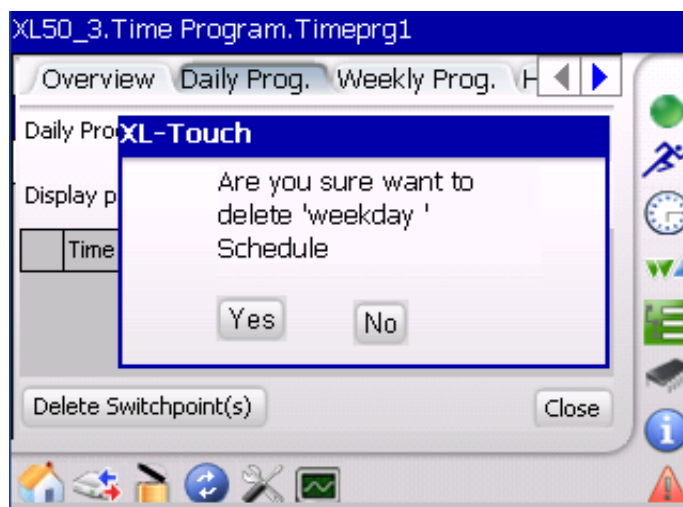


Fig. 118. Borrando un Programa Diario

Weekly Prog.

Aquí se ven los programas horarios asignados a días de la semana. Si desea cambiar el programa horario asociado a un día de la semana concreto, seleccionarlo, picar en la columna **Daily Program** y seleccionar el programa de la lista desplegable. Para salvar los cambios, activar el marcador.

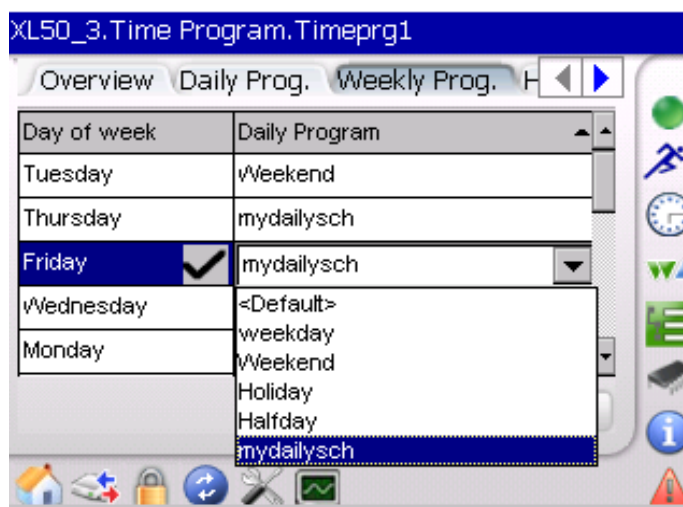


Fig. 119 .Programa Semanal

Holiday Prog

Permite habilitar o deshabilitar los festivos programados para un programa horario. La columna *Holiday Prog.* muestra la descripción, la columna *Daily Program* muestra el programa activo para ese día y la columna *Date* muestra la fecha del festivo.

Para cambiar un programa diario para un festivo, picar el programafestivo, picar en la columna **Daily Program** y seleccionar el programa diario deseado.

Se debe habilitar/deshabilitar un programa festivo para sobrescribir/no sobrescribir un programa horario existente para un día particular, picando respectivamente en los botones **Enable** o **Disable** para el programa festivo seleccionado.

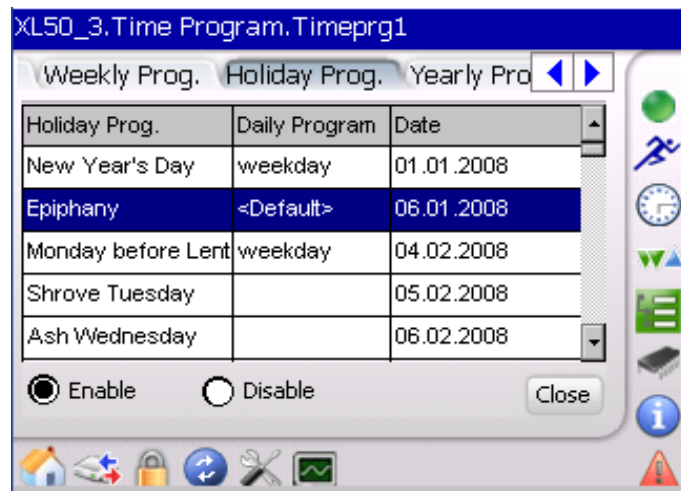


Fig. 120. Programa Festivo

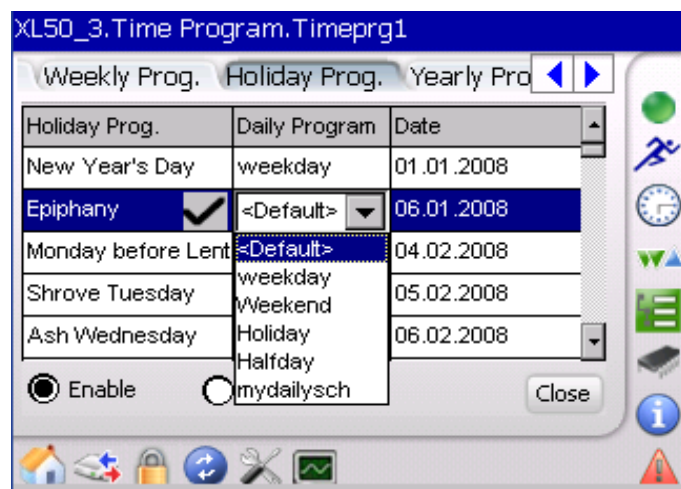


Fig. 121. Programa Festivo

Yearly Prog.

Aquí se ven los programas horarios asignados para las semanas del año; se puede ver el período de tiempo de un máximo de 12 semanas. Aquí también se pueden sobrescribir los programas horarios de un día de la semana aplicando otro programa horario.



Fig. 122. Programa Anual

Para definir un período de tiempo, picar en **Starting on** y de la lista desplegable seleccionar la fecha de inicio de la semana en el calendario.
 Picar en **Shop ... Weeks(s)** y de la lista desplegable seleccionar el número de semanas que el período debería contener.

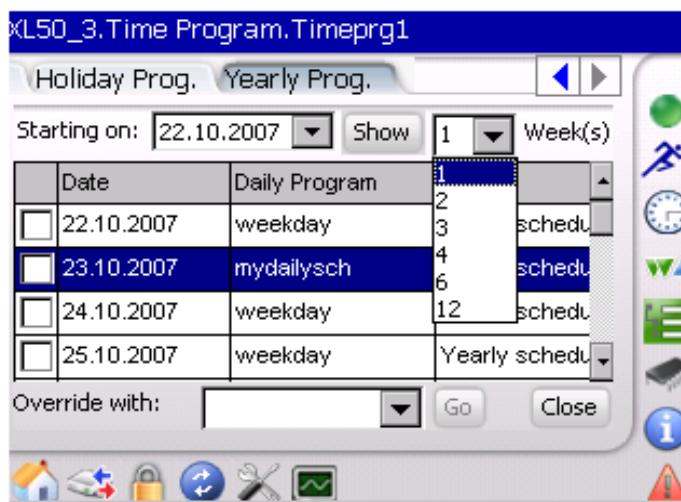


Fig. 123. Programa Horario

Para sobrescribir los programas horarios de días concretos de la semana, picar la caja de selección de la fecha en la primera columna. Picar en **Override with** y de la lista desplegable seleccionar el programa diario que se debería usar para sobrescribir el programa diario mostrado en la columna **Daily Program**.

Picar el botón **Go**.

Se puede sobrescribir el programa diario activo de una fecha particular picando en la columna **Daily Program** y seleccionando el programa diario que se debería usar para sobrescribir.

Picar el marcador para salvar los cambios.

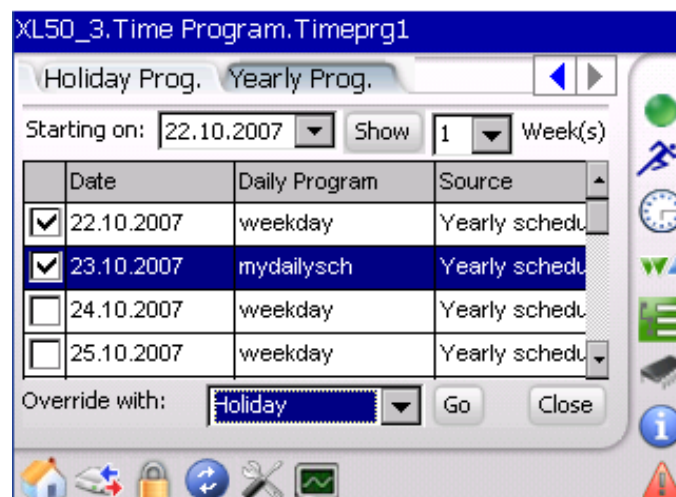


Fig. 124. Sobremando de los programas diarios en el Programa Anual

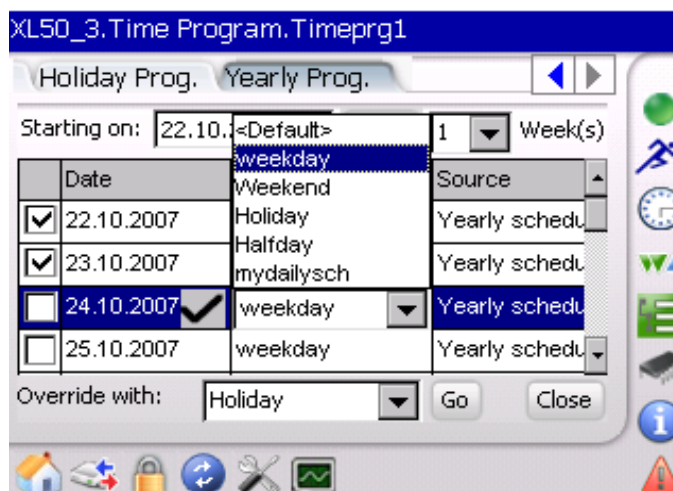


Fig. 125. Sobremando de programas diarios en un Programa Anual

Listas de Acceso Rápido

El icono  muestra La Lista de Acceso Rápido (FAL). Esto es, una lista de puntos/programas horarios y parámetros que se desean ver y cambiar frecuentemente. Por defecto, la lista de acceso rápido es la página principal para cualquier controlador de la familia Excel 5000. Inicialmente, no hay ninguna FAL por defecto, y debe crearse para que aparezca.

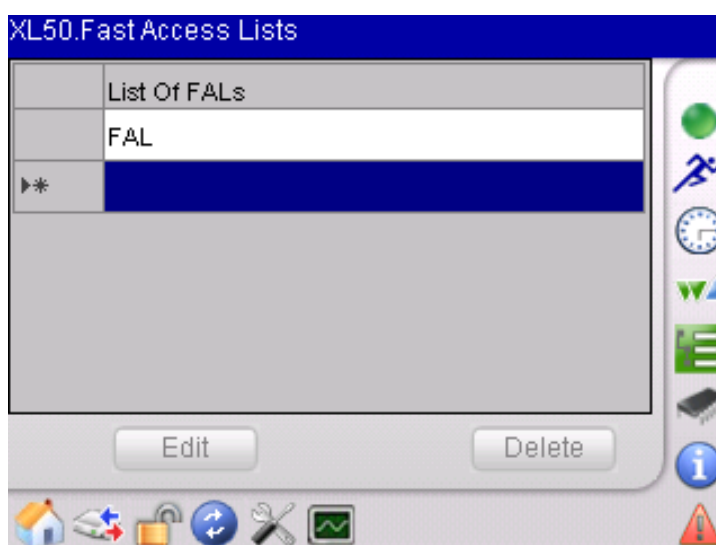


Fig. 126. Lista de Acceso Rápido

Para crear una nueva Lista de Acceso Rápido FAL, hay que entrar con nivel de acceso 3. Picar en la fila en blanco e introducir el nombre con la ayuda del panel de entrada, y luego activar el marcador para salvar la nueva Lista de Acceso Rápido.

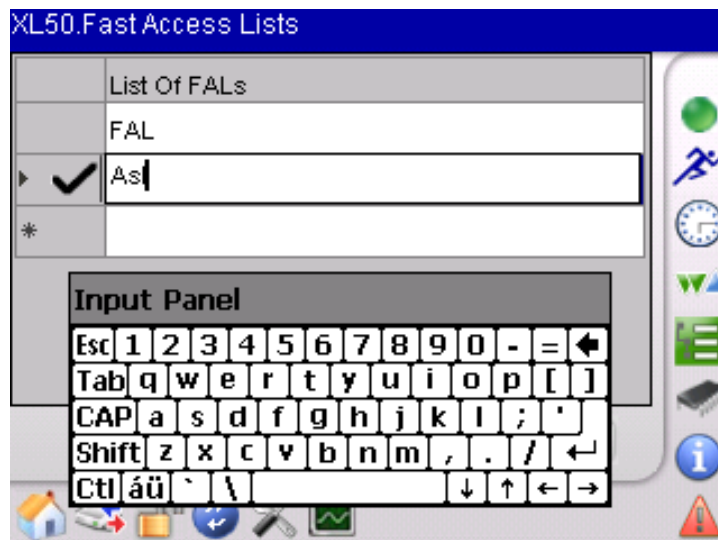


Fig. 127. Creating a Fast Access List

Para borrar una FAL, seleccionar la FAL deseada marcando con el símbolo ► en la primera columna de la fila y luego picar en el botón **Delete**. La fila con el símbolo '*' es la fila nueva, y no se puede borrar.

Para modificar una FAL, picarla en la Lista, y seleccionar el botón **Edit**. La pantalla de esa Lista de Acceso individual aparecerá.

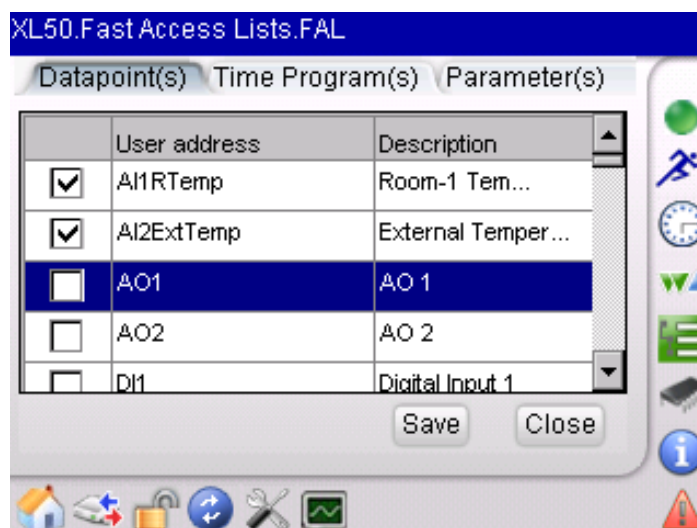


Fig. 128. Añadir/Eliminar Puntos de una Lista de Acceso Rápido

Datapoints

Aquí se pueden añadir puntos a una FAL picando en los cajetines de selección correspondientes de la primera columna. Desmarcándolos, los suprimiremos de la Lista:

Una Lista de Acceso Rápido muestra la dirección de usuario y la descripción del punto.

Picando el botón **Save** se salvan los puntos seleccionados y se muestran en la Lista de Acceso Rápido tras picar en el botón **Close**.

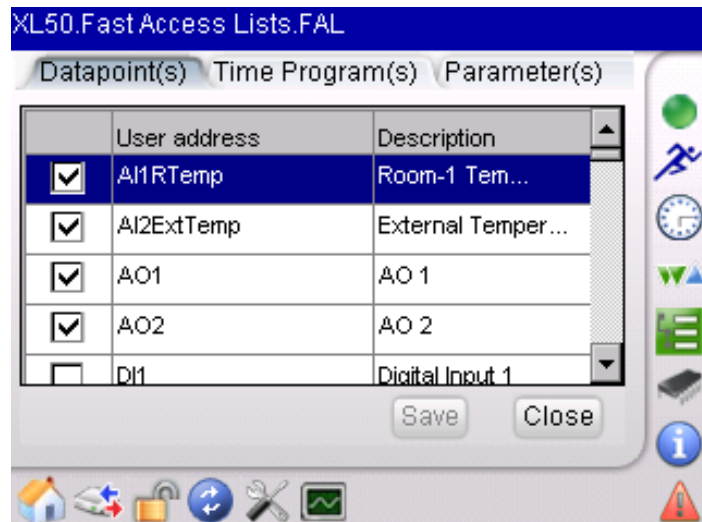


Fig. 129. Añadir/Borrar Puntos de una Lista de Acceso Rápido

Time Program(s)

Se pueden añadir/borrar programas horarios de una Lista de Acceso Rápido.

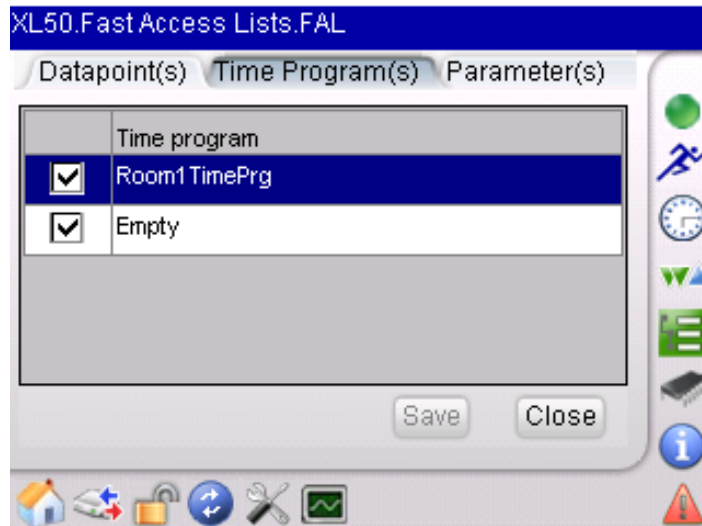


Fig. 130. Añadir/Borrar Programas Horarios de una Lista de Acceso Rápido

Sobre la pestaña *Time Program(s)* marcar el cajetín de la primera columna del programa horario que se quiere añadir a la Lista de Acceso Rápido. Desactivar el cajetín de la primera columna del programa horario que se quiere eliminar de la Lista de Acceso Rápido.

Picar el botón **Save** para salvar los programas horarios seleccionados y mostrarlos en la Lista de Acceso Rápido tras picar el botón **Close**.

Parameters

Aquí se pueden añadir/borrar parámetros a/de una Lista de Acceso Rápido. Primero hay que importar el fichero de parámetros del disco, picando el botón Import (ver el apartado Parámetros para una descripción detallada). Picar en **File No.** y de la lista desplegable seleccionar el número de fichero apropiado.

Marcar el cajetín de la primera columna del parámetro que se quiere añadir a la Lista de Acceso Rápido. Desmarcar el cajetín de la primera columna del parámetro que se quiere eliminar a la Lista de Acceso Rápido.

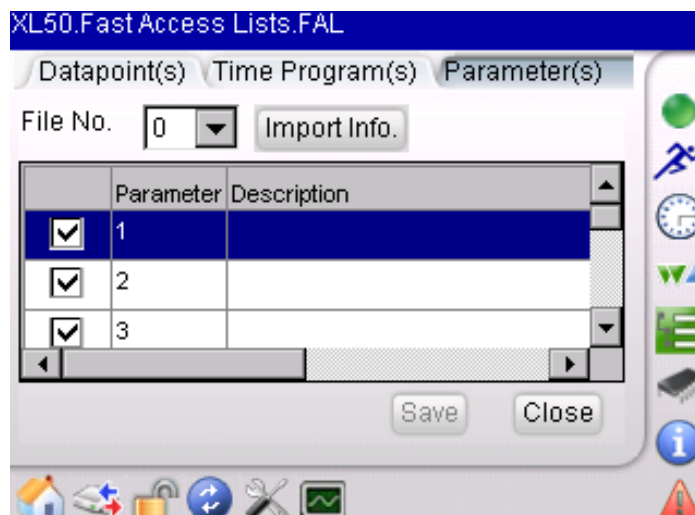


Fig. 131. Añadir/Eliminar Parámetros de/a una Lista de Acceso Rápido

Picar el botón **Save** para salvar los parámetros actualmente seleccionados y mostrarlos en la Lista de Acceso Rápido tras presionar el botón **Close**.

OPERATE EXCEL WEB

Home Page Description and Basic Functions

Home Page Description

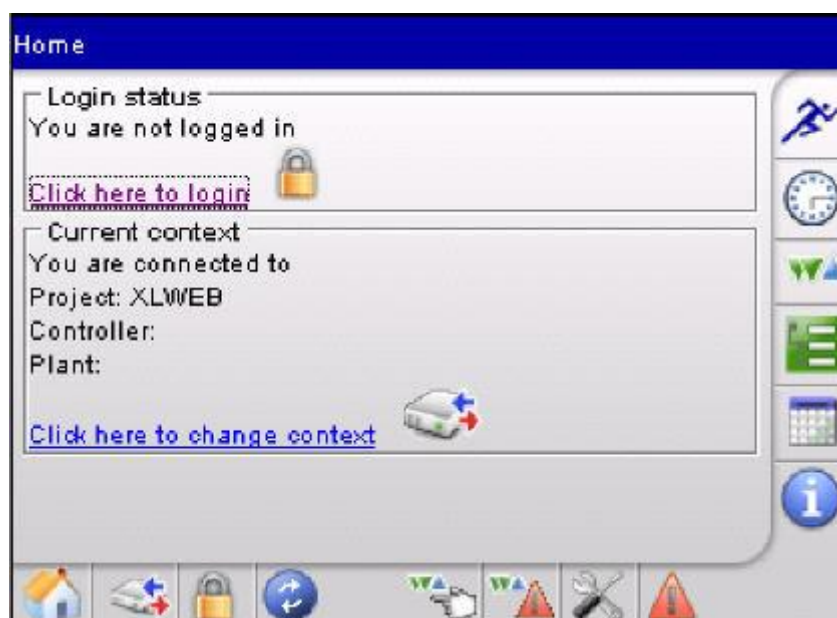
The *Home* page provides the following functions:

Status information

- Login (are you logged in or logged out)
- Current context (to which controller are you currently connected, its project name and plant name)

Operating icons

By tapping on the corresponding operating icon with the stylus or finger you can operate the selected controller (context) according to your needs (see “Operating Icons” section for a brief description of each operating icon and refer to the corresponding sections that describes the functions in more detail).



Operating Icons

Horizontal Icon Bar	Icon Name	Function
	Home	Displays the Home page
	Bus-wide Switch Context	Allows accessing any controller on the bus
	Login / Logout:	Allows logging in/logging out to/from a controller with specific access level

Horizontal Icon Bar	Icon Name	Function
	Refresh	Refreshes (updates) the actual screen
	Datapoints in Hand	Shows the list of datapoints that have been set to hand
	Datapoints in Alarm	Shows the list of datapoints that are in alarm
	Configuration	Allows setting/changing the configuration of XI882 and the controller (e.g. display, table sort order, date and time, and others).
	System Alarms	Allows selection of a different controller and a different plant in order to show their number of alarms (new/total) and alarm status
	Alarms	Shows the number of alarms (new/total) and the alarm status in the currently connected controller and plant. Indicates current alarm status: Blinking red = new and unviewed alarms exist Constantly red = alarms have been viewed but alarm conditions still exist Constantly green = no alarm conditions exist
Vertical Icon Bar	Icon Name	Function
	Fast Access Lists	Displays fast access lists, i.e. a quick view of datapoints and parameters Allows creating, changing and deleting fast access lists,
	Time program Schedules	Allows viewing, creating, changing and deleting schedules
	Datapoints	Allows viewing, creating, changing and deleting datapoints
	Parameters	Allows viewing, creating, changing and deleting parameters
	Calendars	Allows creating, changing and deleting calendars
	Information	Allows viewing information about the project, controllers, plants and control loops

Basic Functions

Entering Data (Characters)

You can enter characters by tapping the corresponding keyboard keys.

Tapping	results in
NUM key	toggling the keyboard between letters and numbers display
CAPS key	toggling the keyboard between capital and small letters display
Red X key	emptying the entry field
BACKSPACE key	deleting the characters in the entry field, beginning from the right end side.



Modifying Data

Data can be modified by tapping the appropriate buttons, such as **New**, **Delete**, **Copy** etc.

Saving Data

Saving and discarding changed data is handled by using the following buttons (dependent on the dialog):

SUBMIT/ **OK**

Saves changes done in the current dialog

CLOSE / **CANCEL**

Discards changes done in the current dialog

Refreshing (updating) Data

A manual instant refresh of the data can be done by tapping the *Refresh* icon .

Page Display

By selecting a specific page number in the drop-down list box, you can display certain pages.

Name	Value/Unit	Status	Type
AI1	0.00 %	Normal	AI
AI2	0.00 %	Normal	AI
AI3	0.00 %	Normal	AI
AI4	0.00 %	Normal	AI
AI5	0.00 %	Normal	AI

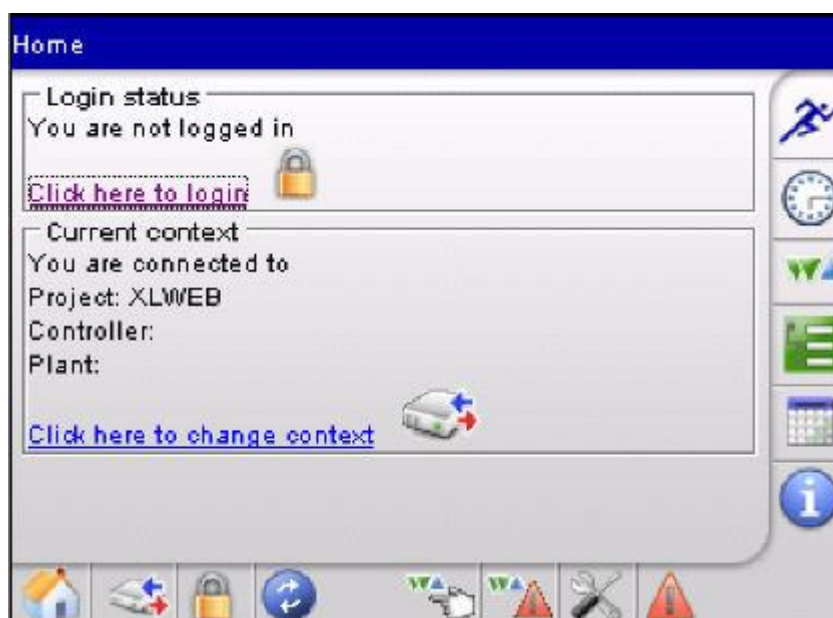
Details...

Page 1
Page 1
2
Page 3

Login to XI882

Prerequisites The XI882 device must be physically connected to the controller as described under " ".

Procedure 1. On the *Home* page, tap on **Click here to login** or tap *Login* icon .



RESULT: The *Login* screen displays.



2. In you field, enter your user name.
3. In the **Password** field, enter your password.
4. Tap **OK** button.

RESULT: By default, after login, the *Fast Access Lists* overview screen isplays (see "Fast Access Lists" section).



Logout from XI882

Procedure

1. Tap *Login / Logout* icon .

Change Context

Prerequisite

The XI882 device must be physically connected to the controller you want to access, as described in the mounting instruction MU1B-0387GE51.

Procedure

1. On the *Home* page, tap on **Tap here to change context** or tap *Switch context* icon.

RESULT: The *Change Context* screen displays. The title line displays the currently connected controller.



2. In the **Controller** drop-down list box, select the controller you want to access.
3. In the **Plant** drop-down list box, select the plant of the controller you want to access.
4. Tap **OK** button.

Configuration

Configuring the XI882, includes the following settings:

- Display
- Sort Orders
- Cycle Time
- LON Statistics
- Date & Time
- User Administration
- Communication

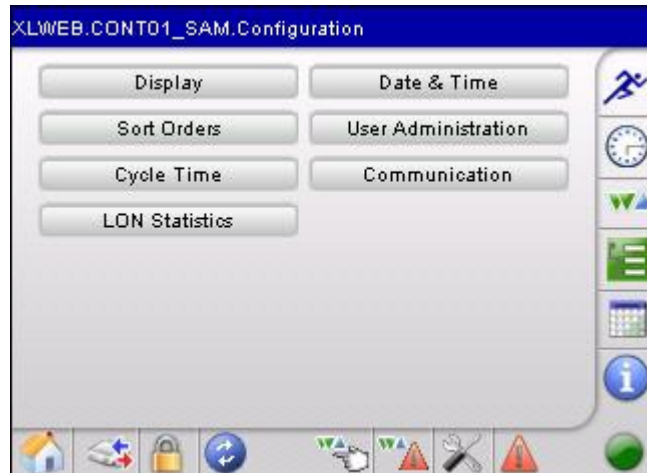


For operation procedures, please refer to the following subsections.

Configure Display

- Procedure** 1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The *Configuration* screen displays.



2. Tap **Display** button.

RESULT: The *Display* screen displays.



3. From the **Refresh** drop-down list box, select the refresh time. The refresh time defines the period after that the XI882 screens are refreshed (updated).
4. From the **Display Language** drop-down list box, select the language in which the XI882 screens are displayed.
5. Tap **OK**.

Configure Sort Orders

Configuring sort orders includes the setting the sort order for the display of the following lists:

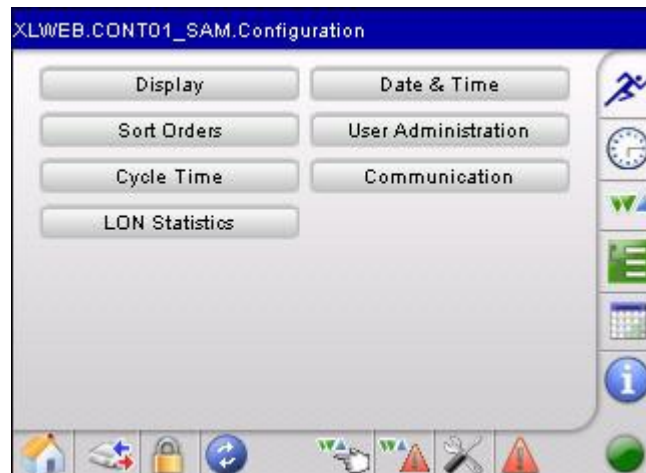
- Datapoints
- Schedules
- Alarms

- Users

Procedure

1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The *Configuration* screen displays.



2. Tap **Sort Orders** button.

RESULT: The *Sort Orders* screen displays. The *Datapoints* tab is selected by default.



You can set the sort order priority of 3 columns and for each column you can define the type of sorting (ascending or descending).

3. From the **First by** drop-down list box, select the column that should have the highest priority.
4. From the first **Then by** drop-down list box, select the column that should have the secondly highest priority.
5. From the second **Then by** drop-down list box, select the column that should have the third highest priority.
6. Tab **Submit** button, and then tab **Close** button, or tab the *Schedules*, *Alarms* or *User* tab for setting those sort orders.
7. For setting the sort order of *Schedules* lists, tap the *Schedules* tab.



8. Select whether the schedules lists should be sorted **By Schedule Name** or **By Switched Property**.
9. Tab **Submit** button, and then tab **Close** button, or tab the *Alarms* or *User* tab for setting those sort orders.
10. For setting the sort order of *Alarms* lists, tap the *Alarms* tab.



11. Set order for alarms lists in the same way as described for the datapoints in steps 3 through 5.
12. Tab **Submit** button, and then tab **Close** button, or tab you tab for setting those sort order.



13. Set order for users lists in the same way as described for the datapoints in steps 3 through 5.

14. Tab **Submit** button, and then tab **Close** button.

Configure Cycle Time

The cycle time category defines the (target) time in ms after a control loop is restarted automatically.

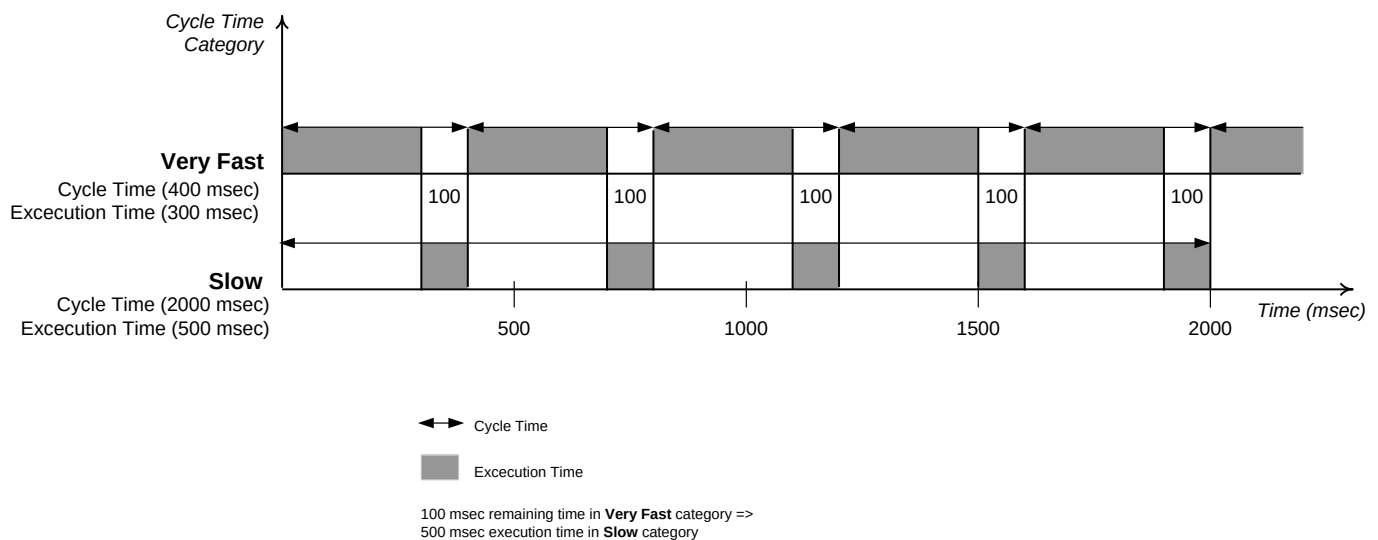
Target cycle times are grouped in the following categories with descending priority:

- Very Fast.
- Fast
- Medium
- Slow

In other words, a control loop which has the very fast category assigned, is executed more often in the same time.

Each control loop is assigned to one of these categories. Any changes done to the target cycle time will affect all control loops assigned to the corresponding category.

The controller executes multiple control loops simultaneously (multitasking). There is a dynamic relation between the target cycle time categories as shown in the following diagram:



The diagram illustrates, that the degree of execution of a control loop having a slow cycle time category assigned, depends on the remaining time (=cycle time minus execution time) provided by a control loop executed in very fast cycle time.

The target cycle time should not be exceeded during control loop execution. If a category's execution time is permanently greater than the corresponding target cycle time, the controller is overloaded and the target cycle time should be changed by increasing it to higher values than the execution time.

IMPORTANT

It is recommended to set the cycle times to values to between 30 % and 50 % higher than the execution times in order to make sure that control loops having medium and slow cycle times assigned can be executed in appropriate time.

NOTE: The settings done in the XI882 will be overwritten after a download with CARE. Hence, upload the application into CARE using XW Online after the plant has been setup.

Procedure

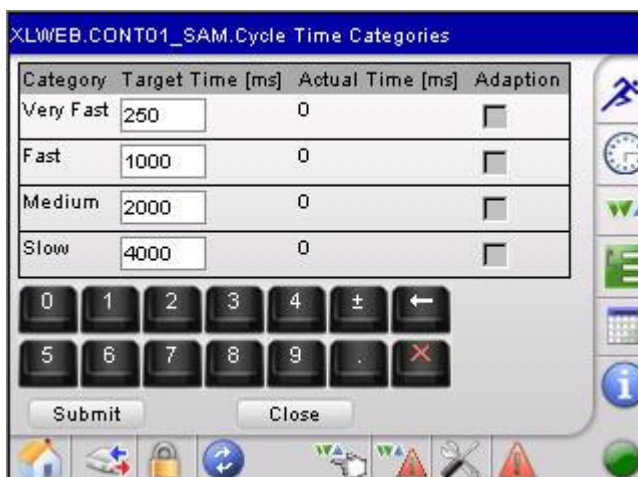
1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The *Configuration* screen displays.



2. Tap **Cycle Time** button.

RESULT: The *Cycle Time Categories* screen displays.



3. Change cycle times according to your needs.
4. Tab **Submit** button, and then tab **Close** button.

View/Reset LON Statistics

You can view various statistical values of LON failures, errors, and messages.

Procedure

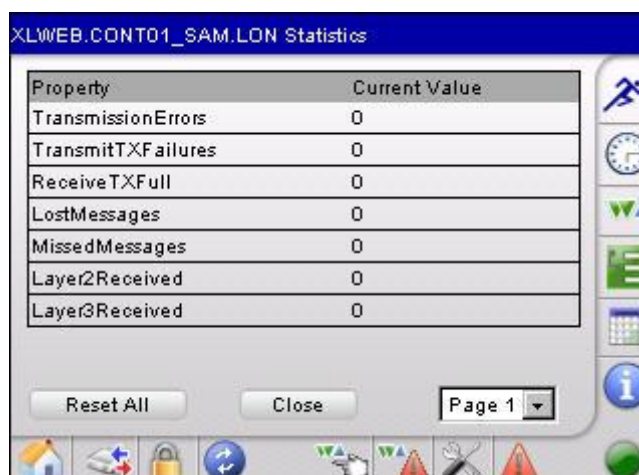
1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The *Configuration* screen displays.



2. Tap **LON Statistics** button.

RESULT: The *LON Statistics* screen displays. It shows current statistical values of e.g. message transmission and errors, collisions, etc.



3. To reset all values, tap the **Reset All** button. Note that single values cannot be reset.

4. Tap **Close** button.

Configure Date & Time

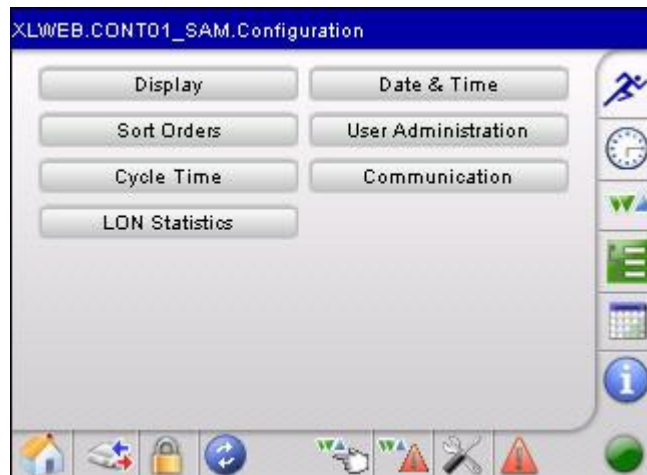
Configuring date and time includes the system-settings:

- Date
- Time
- Time zone

Procedure

1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The *Configuration* screen displays.



2. Tap **Date & Time** button.

RESULT: The *Date / Time* screen displays.

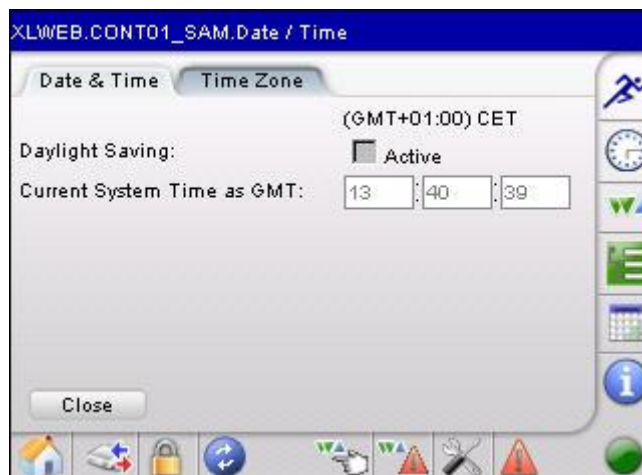


On the *Date & Time* tab, the actual date and time are displayed in the **Current** line.

3. To change the system date, enter the new system date in the fields 1 through 3 in the **New** line.
4. To change the system time, enter the new system time in the fields 4 through 6 in the **New** line.
5. Tap **Submit** button, and then tap **Close** button, or tap *Time Zone* tab to view the time zone.
On the *Time Zone* tab, current time zone is displayed on the top, and cannot be changed.

In order to change the time zone, the large web-interface (800x600 web-pages) or CARE must be used.

NOTE: The large (800x600) web-interface can be accessed with any Laptop or PC with at least 800x600 resolution, by using the Internet Explorer or Mozilla browser.



View / Configure Communication Settings

Communication settings include the following:

- Interface settings for serial ports, Ethernet, LON, Modem and Web-Server, such as baud rate, IP address, neuron chip ID, automatic logout time of web server
- Modem Settings such as serial port baud rates for Browser access via modem.

Procedure

1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The *Configuration* screen displays.



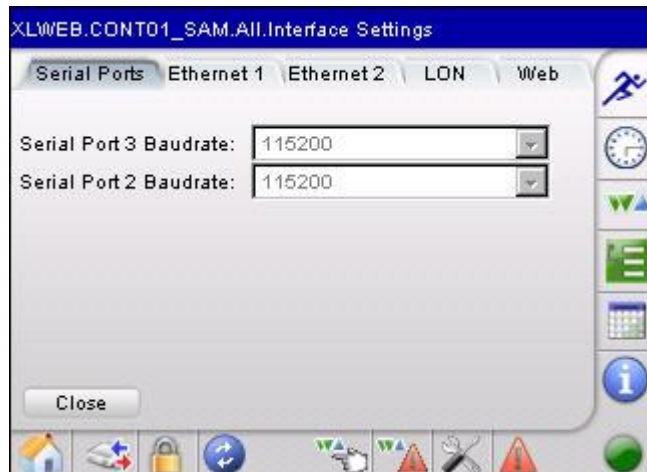
2. Tap **Communication** button.

RESULT: The *Communication* screen displays.



3. To view/configure interface settings, tap **Interface Settings** button. To view/configure modem settings, tap **Modem Settings** button (continue with step 11).

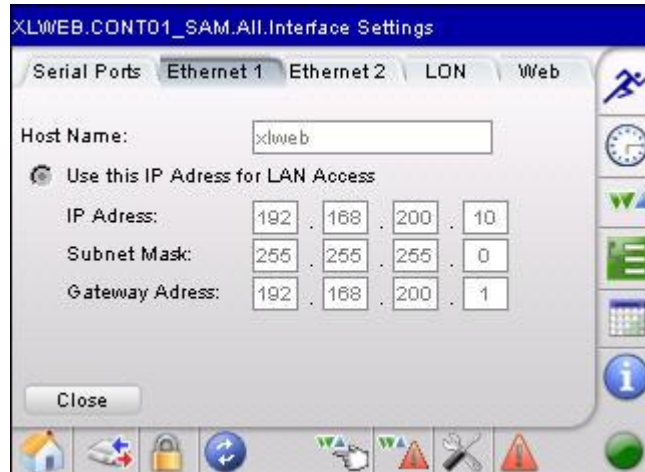
RESULT: When tapping **Interface Settings** button, the *Interface Settings* screen displays. By default, the *Serial Ports* tab is selected.



4. **Serial Port 3 Baudrate** and **Serial Port 2 Baudrate** is read only and cannot be changed.
5. To view Ethernet settings, tap *Ethernet 1* tab.

In order to change Ethernet settings, the large web-interface (800x600 web-pages) or CARE must be used.

NOTE: The large (800x600) web-interface can be accessed with any Laptop or PC with at least 800x600 resolution, by using the Internet Explorer or Mozilla browser.



The following properties are shown:

Host Name

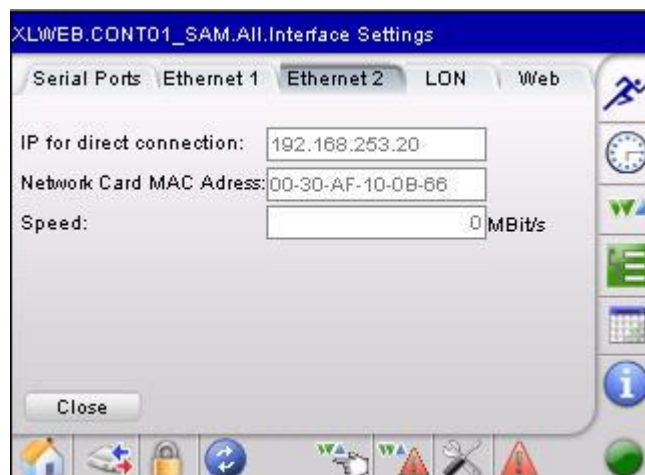
Displays the name of the host (server).

Use this IP address for LAN Access

The IP address has been explicitly allocated in CARE.

- IP address
- Subnet mask
- Gateway address

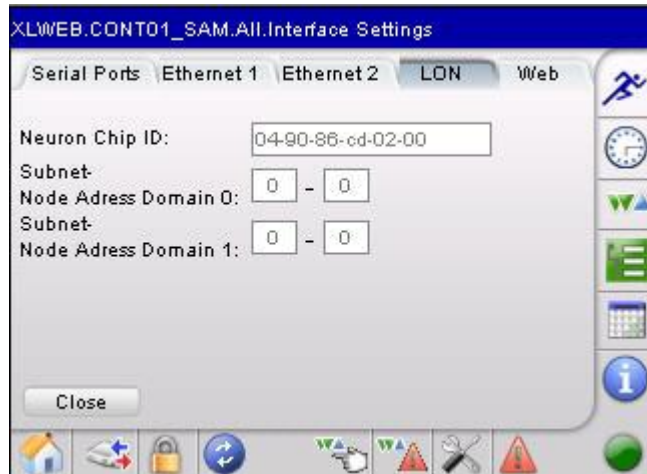
6. To view further Ethernet settings, tap *Ethernet 2* tab.



The following properties are shown:

- IP for direct connection (through crossover cable)
- Network Card MAC Address
- Speed (not used as of now)

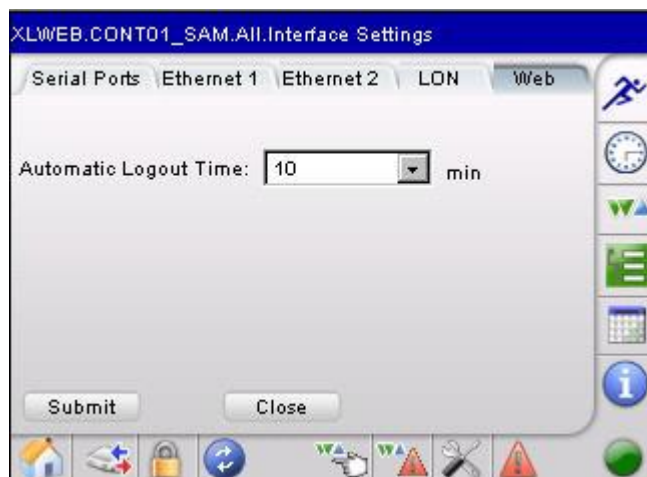
7. To view LON settings, tap *LON* tab.



The following properties are shown:

- Neuron Chip ID
Neuron ID of the controller.
- Subnet-Node Address Domain 0
Subnet/node address of domain 0 as defined in CARE
- Subnet-Node Address Domain 1
Defaults to zero.

8. To set the logout time, tap **Web** tab.



9. From the **Automatic Logout Time**, select the time for logout of the web server. The automatic logout time is the time of inactivity after you are automatically logged out and be redirected to the Login dialog.

NOTE: The automatic logout time applies to the controller, not to just you. This means, that the current time set for the controller applies to all users which are currently in and access the controller.

10. To save changes, tap **Submit** button, and then tap the **Close** button.

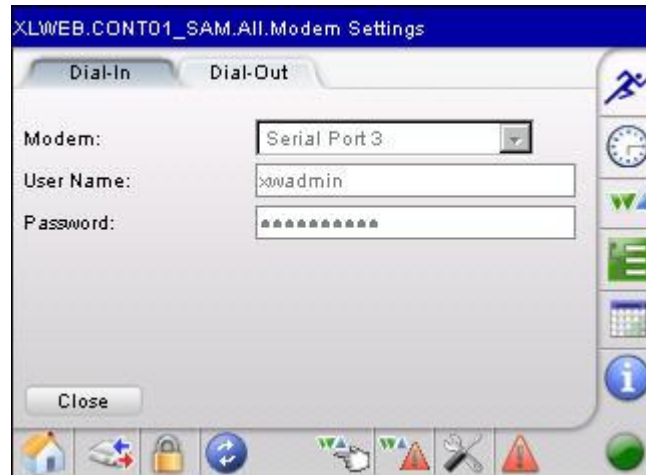
RESULT: The *Communication* screen redisplay.

11. To view modem settings, tap **Modem Settings** button.

In order to change Modem settings, the large web-interface (800x600 web-pages) or CARE must be used.

NOTE: The large (800x600) web-interface can be accessed with any Laptop or PC with at least 800x600 resolution, by using the Internet Explorer or Mozilla browser.

RESULT: The *Modem Settings* screen displays. By default, the *Dial-In* tab is selected. The dial-in settings are controller related.



14. Tap **Close** button, or to view further modem settings, tap *Dial-Out* tab.



NOTE: Dial-out is not supported as of now, which means that the settings displayed have no effect and cannot be used to date.

The dial-out settings displayed, are:

- Wait for Dial Tone
Defines whether the controller should wait for a dial tone (YES) or not (NO) before dialing
- Dial Method
Defines the method, tone or pulse dialing
- Loudspeaker
Defines whether the modem speaker should be switched ON or OFF
- Additional Command String
A string entered here, is sent to the modem whenever the communication watchdog is started and before each dial-out attempt.
- Idle Time before Hang-up
Defines the time of inactivity in sec. after which the modem hangs up.

16. Tap **Close** button.

User Administration

Invoke User Administration

Procedure

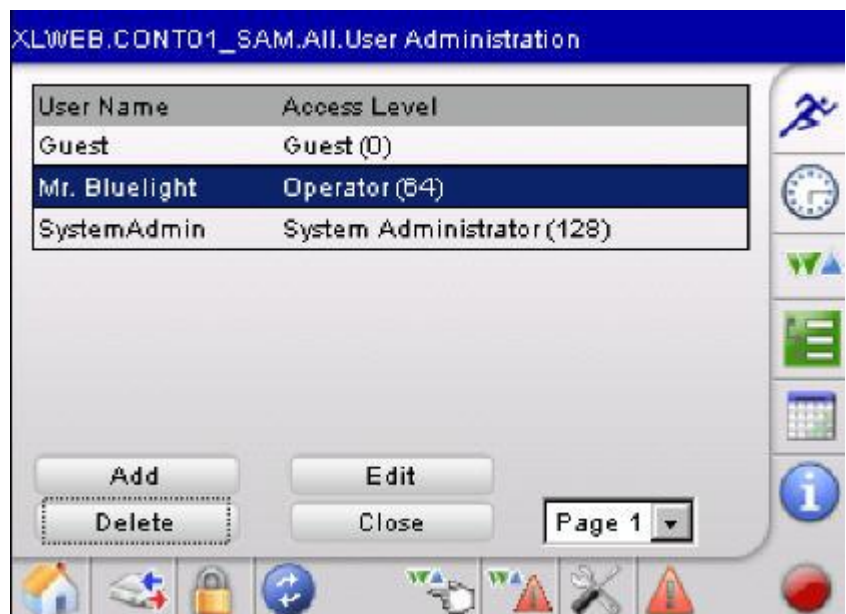
1. In the horizontal icon bar, tap the  *Configuration* icon, and then tap the **User Administration** button.

RESULT: The *All.User Administration* screen displays. For each user, the following properties are shown:

- User Name
- Access Level

Users can be newly added, edited and deleted. In addition, your password can be changed. By default the SystemAdmin and the Guest users are already available.

On the *Access Rights* tab, the access rights for all users will be defined by assigning the predefined user levels to the executable functions (see Create Access Rights section).



Create Access Rights List

NOTE: Only you who has System Admin or Project Admin user level can create or edit access rights. The System Admin level is automatically assigned to you who has created the project initially in CARE.

Procedure

1. Select the *Access Rights* tab.
2. To each function described in the *Description* column, assign the appropriate user level by selecting it in the corresponding line in you *Level* column.

Note that you levels are arranged hierarchically with the following sequence of descending priority:

- System Administrator (128) = highest priority
- Project Administrator (115)
- Building Engineer (96)
- Operator (64)

- Tenant (32)
- Guest (0) = lowest priority

3. Tap **Submit** button to save settings.

4. To create a new user, continue as described under the "Create User" section.

Add User

NOTE: Only you who has System Admin user level can add users, edit, or delete existing users.

Procedure

1. In the *All.User Administration* screen, tap the **Add** button.

2. On the *Login* tab, enter you name in you **Name** field.

3. In the **Password** field, enter the password for you.

4. In the **Confirm** field, confirm the new password by entering the password again.

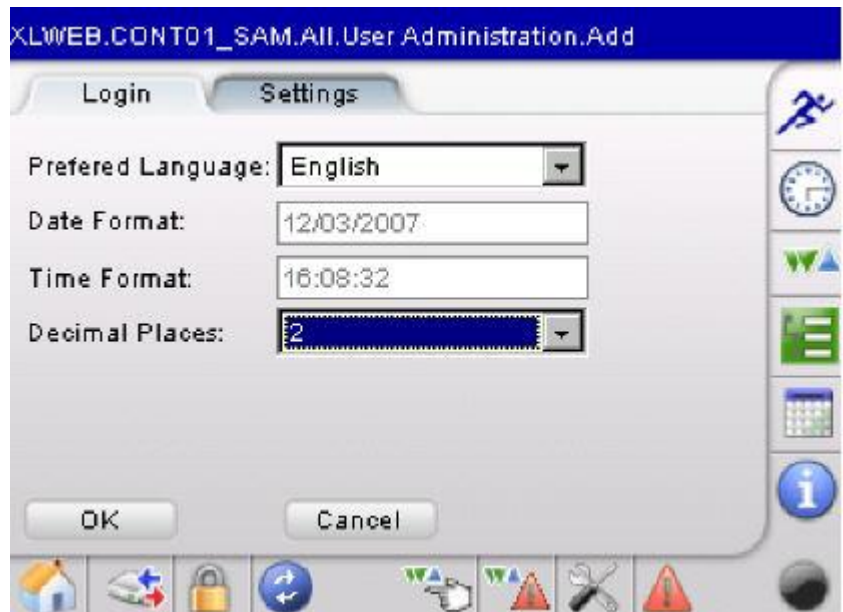
5. From the **Access Level** drop-down list box, select you level.

Note that you levels are arranged hierarchically with the following sequence of descending priority:

- System Administrator (128)
- Project Administrator (115)
- Building Engineer (96)
- Operator (64)
- Tenant (32)
- Guest (0)

Due to the access rights list definitions (see "Create Access Rights" section), this assignment automatically determines the set of access rights, which you are allowed to execute in the Xl882.

6. Tap *Settings* tab.



7. From the **Preferred Language** drop-down list box, select the language in which the XI882 should be displayed for you. If information is not available in your preferred language, the controller will send the information in the default language, defined in CARE. After logging in, the XI882 is displayed in your preferred language.

Date Format

Displays the date format. It may be either dd.mm.yyyy or mm/dd/yyyy. The controller stores the date format along with the language setting.

Time Format

Displays the time format. The controller stores the time format along with the language setting.

8. From the **Decimal Places** drop-down list box, select the number of decimal places for the display of values.
9. Tap **OK** button to save settings.

Edit User

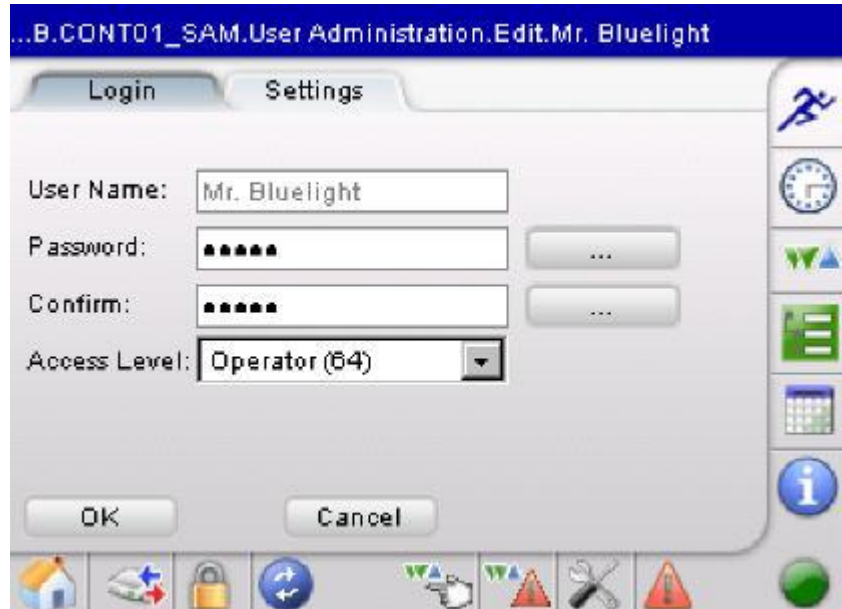
NOTE: Only you who has System Admin user level can create new users and edit or delete existing users. Your name cannot be changed.

Procedure

1. In the *All.User Administration* screen, tap the user you want to edit.

RESULT: The *.User Administration.Edit* screen displays.

2. Tap the **Edit** button.



3. If desired, change the password by tapping the **Browse** button right to the **Password** field. Enter the new password.
4. Enter the new password, and then tap the **OK** button.
5. Tap the **Browse** button right to the **Confirm** field. Enter the new password again.
6. If desired, change your level by selecting another level from the **Access Level** drop-down list box.

When changing your level, note the sequence of descending priority of user levels:

- System Administrator (128)
- Project Administrator (115)
- Building Engineer (96)
- Operator (64)
- Tenant (32)
- Guest (0)

If your level has been changed, you should note the current access rights definitions on the *Access Rights* tab in your *administration* dialog box.

7. If desired, change your level by selecting another level from the **Access Level** drop-down list box.
8. If you want to change the preferred language and/or decimal places, click the **Settings** tab.
9. If you want to change the preferred language and/or decimal places, tap the **Settings** tab.
10. To change the language in which the XI882 should be displayed for you, select another language from the **Preferred Language** drop-down list box. If information is not available in your preferred language, the controller will send the information in the default language, defined by the CARE engineering tool. After logging in, the XI882 is displayed in your preferred language.

Date Format

Displays the date format. It may be either dd.mm.yyyy or mm/dd/yyyy. The controller stores the date format along with the language setting.

Time Format

Displays the time format. The controller stores the time format along with the language setting.

11. To change the number of decimal places for the display of values in the XI882, select another value from the **Decimal Places** drop-down list box.
12. Tap the **OK** button to save settings.

User Data Synchronization When the Execl Web application is uploaded from Excel Web into CARE, CARE will synchronize user definitions made online in the XI882 with the CARE database.

Delete User

NOTE: Only you who has System Admin user level can create new users and edit or delete existing users.

- Procedure**
1. In the *All.User Administration* screen, tap you you want to delete.
 2. Tap the **Delete** button.

RESULT: You is deleted from the list.

Display Project Information

- Procedure**
1. In the vertical operating icon bar, tap the  *Information* icon.

RESULT: The *Information* screen displays.



2. Tap **Project** button.

RESULT: In the Information.Project screen, project information as it has been defined in CARE is displayed on the *Info 1* and *Info 2* tabs. On the *Info 1* tab the following information is shown.

- Project Name
Name of project, for example, site location
- Reference Number
A number that further describes the project. For example, branch number
- Description
Default Text about the project that may help to identify it.
- Customer
Customer name

3. To view further information, tap *Info 2*.
On the *Info 2* tab the following information is shown.

- Order Number
Number assigned to project order
- Project Administrator
Name of responsible project engineer
- Units of Measurement
International or Imperial (English). This selection affects the operation of the icons in Control Strategy that perform EMS operations. The values for the inputs and outputs are different depending on the selection of International or English units.
- Character Set
The appropriate character set is necessary for unobstructed communication between devices on the BACnet bus. For proper communication between Excel Web controllers and the EBI central, or any other BACnet device, the ANSI (or ISO Latin I) character set must have been selected in CARE.

4. After you have viewed the project information, tap **Close** button.

Display Controller Information

Procedure

1. In the vertical operating icon bar, tap the  *Information* icon.

RESULT: The *Information* screen displays.



2. Tap **Controller** button.

RESULT: The *Information.Controller* screen displays.



When tapping the **General** button, you can view information such as name, model, last download, Ethernet and LON bus information. When tapping the **Versions** button, you can view version information on firmware, Linux image, web server, application and used tool, and other.

3. To view general information, tap **General** button.

RESULT: The *Information.Controller.General* screen displays. On the *Info1* tab, the following information is displayed:

- Controller Name
- Device ID
Object identifier of the BACnet device object. This is a unique ID is issued by CARE for any device on the BACnet bus. If the BACnet device is an Excel Web controller, the device ID is the same as the controller number.

NOTES:

When integrating 3rd party BACnet devices, it must be ensured that no identical device IDs exist in the whole BACnet system. For that reason, in CARE, an offset can be defined. Adding this offset to the controller number generates the device ID.

The display always shows 8/xxxxx, where “8” stands for the object type, which is “device object”, and where xxxxx stands for the device ID itself.

- Location
Additional Text for the controller, which indicates the location of the controller, e.g. Floor 4, Section Nord.
- Controller Model
Controller type

4. To view further general information, tap *Info 2* tab.



On the *Info1* tab, the following information is displayed:

- Description
Additional descriptive text
- Last Download
Time and date of the last application download
- System Status
DEV_OPERATIONAL, which means the controller is operating normally.

5. To view further general information, tap *Ethernet* tab.

On the *Ethernet* tab, the following information is displayed:

- Use this IP address for LAN Access
IP address, subnet mask and gateway address that have been allocated explicitly in CARE.

6. To view further general information, tap *LON bus* tab.

On the *LON bus* tab, the following information is displayed:

- Neuron Chip ID
Displays neuron ID of the controller.
- Subnet-Node Address Domain 0
Displays subnet/node address of domain 0 as defined in CARE
- Subnet-Node Address Domain 1
Defaults to zero.

7. Tap **Close** button.

8. To view version information of the controller, tap the **Versions** button in the *Information.Controller* screen.

9. To view version information of the controller, tap the *Versions* tab.

RESULT: The *Information.Controller.Versions* screen displays. On the *Controller* tab, the following information is displayed:

- Controller Name
- Controller Model
- Firmware Version
- Linux Image Version

10. To view further version information of the controller, tap the *Web* tab. On the *Web Server* tab, the following information is displayed:

- Web Server Version
- Web Pages Version

11. To view further version information of the controller, tap the *Application* tab. On the *Application* tab, the following information is displayed:

- Appl. Software Version
Number of the translated application. With each translation and download of the application, the number will be increased.
- Last Download (date and time)
- Tool Name (used for application creation)
- Tool Version

12. To view further version information of the controller, tap the *Files* tab. On the *Files* tab, the following information is displayed:

- Name
- Version
Indicates the version of the file.
- Type
Indicates which Application part(s) are contained in the application file.
- Seq.
Sequence indicates online changes, e.g. of Quick Access Groups, Parameters, User Administration etc.
With every online change, the sequence number is incremented.
- Last Saved
Indicates the time when this application file was created in the CARE tool (time of last CARE translation) or when the file has been saved due to an online change.

13. Tap **Close** button.

Display Plant Information

Procedure

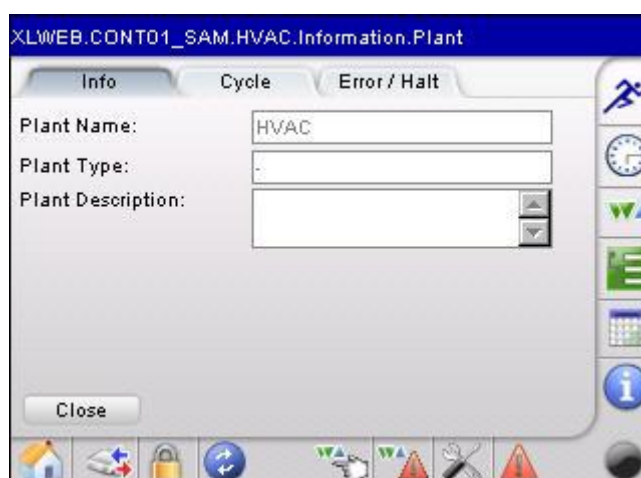
1. In the vertical operating icon bar, tap the  *Information* icon.

RESULT: The *Information* screen displays.



2. Tap **Plant** button.

RESULT: The *Information.Plant* screen displays.



RESULT: On the *Info1* tab, the following information is displayed:

- Plant Name
- Plant Type
- Plant Description

3. To view further information of the plant, tab the *Cycle* tab.



On the *Cycle* tab, application specific properties related to the plant is displayed such as:

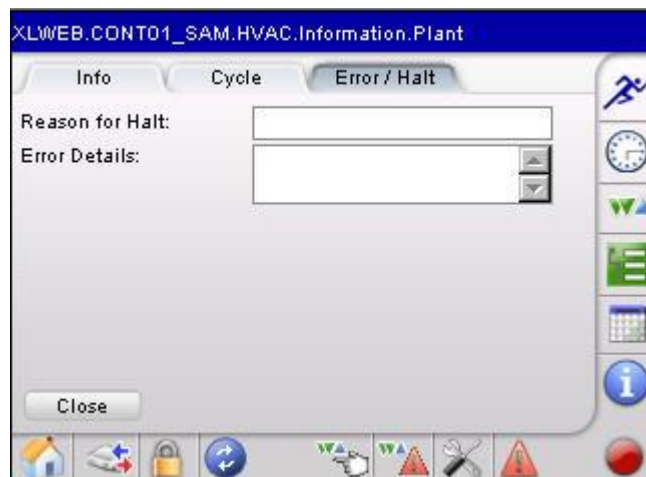
- Current Program State (running or stopped)
- Last Start Date
- Last Stop Date

The application program controlling the plant can be stopped individually by tapping the **Shutdown** button and restarted by tapping the **Restart** button.

IMPORTANT

Stopping and restarting the program does not stop and restart the entire controller application, but parts of the application which control that particular plant.

4. To view further information of the plant, tab the *Error / Halt* tab.



On the *Error / Halt* tab, the following information is displayed:

- Reason for Halt
- Error Details

NOTE: You can only shutdown or restart the control program if your access level is equal to or higher than the access level defined for these actions in you Administration.

5. Tap **Close** button.

View Control Loop Information

Procedure

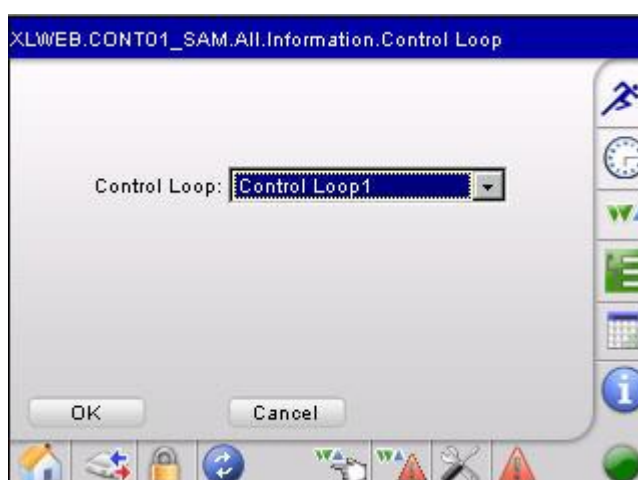
1. In the vertical operating icon bar, tap the  *Information* icon.

RESULT: The *Information* screen displays.



2. Tap **Control Loop** button.

RESULT: The *Information.Control Loop* screen displays.



3. Select the control loop from the **Control Loop** drop-down list box.

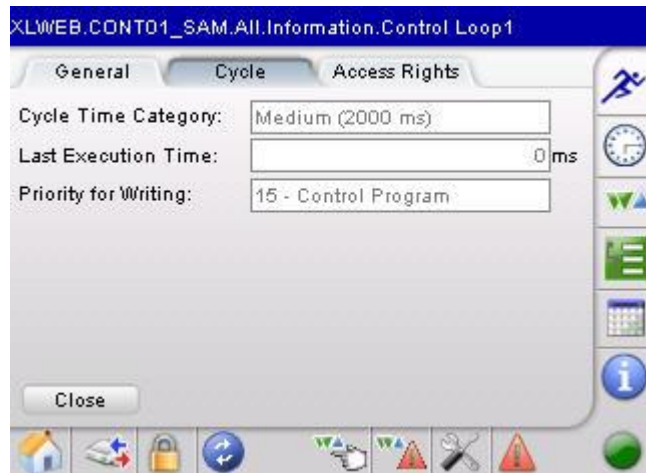
4. Tap **OK**.

RESULT: On the *General* tab, the following information is displayed:



- Control Loop Name
- Description

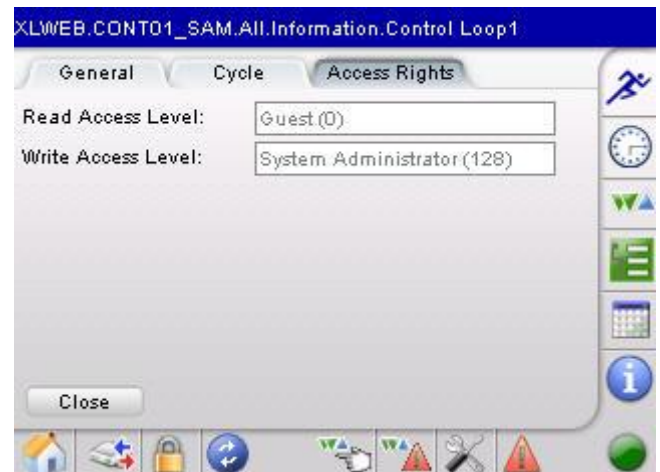
5. To view further information of the control loop, tab the *Cycle* tab



On the *Cycle* tab, application specific properties related to the plant is displayed such as:

- **Cycle Time Category**
The cycle time category defines in ms how often the loop will be automatically executed by the controller. Cycle times are grouped in the following categories: Slow, Medium, Fast, Very Fast.
- **Last Execution Time**
This is the actual execution time in ms of the loop. Allows, e.g. detecting overruns by comparing the actual execution time with the assigned cycle time.
- **Priority for Writing**
Displays priority with which the loop writes to its output(s)

6. To view further information of the plant, tab the *Access Rights* tab.



On the *Access Rights* tab, the access rights are displayed:

NOTE:

Control loop information will only be displayed, if the access level of you is equal to or higher than the read access level of the control loop.

Changing control loop information is only possible if your access level is equal to or higher than the write access level of the control loop.

7. Tab **Close** button.

Fast Access Lists

Fast access lists (abbreviated as FAL) are custom made operation lists, which show plant- or user-oriented information (e.g. electrician, project engineer, tenant).

Fast access lists can comprise selected datapoints and selected parameters. It is possible to create multiple fast access lists per user.

Fast access lists can be created on controller level and on plant level. In plant related fast access lists, you can only view datapoints/parameters of this particular plant whereas controller related fast access lists can comprise datapoints/parameter of different plants of the controller.

Create New Fast Access List

NOTE: You can only create and delete a fast access list if your access level is equal to or higher than the access level defined for datapoints and parameters in the fast access list. Otherwise the **Add** and **Delete** buttons are not displayed.

A fast access list is only displayed if your read access level is equal to or higher than the read access level of the fast access list.

Procedure

1. Tap on **Fast Access Lists** icon .

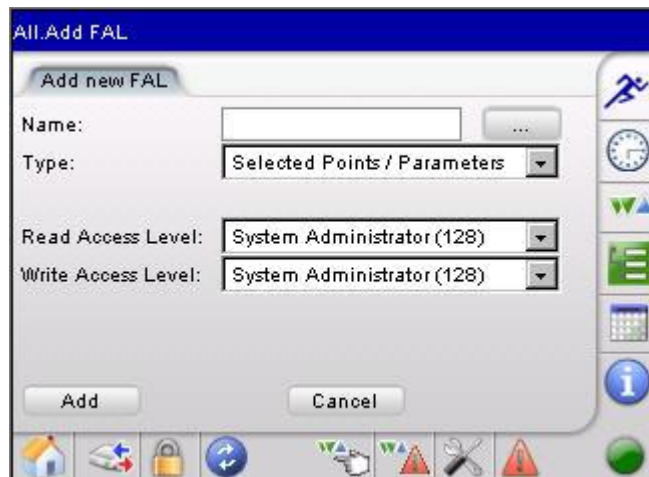
RESULT: The *Fast Access Lists* screen displays. If available, existing user-defined fast access lists are displayed. A fast access list can now be created, either as datapoint/parameter overview or as filter template.



Common Steps

3. In the *Name* column, the fast access lists are listed by name.
4. In the *Type* column, the type (datapoint/parameter overview or filter template) is shown.
5. To create a new fast access list, tap the **New** button.

RESULT: The *Add new FAL* screen displays.



6. In the **Name** field, enter a name by tapping the ... button right to the field.

FAL Type Selection

7. From the **Type** drop-down list box, select the fast access list type under:

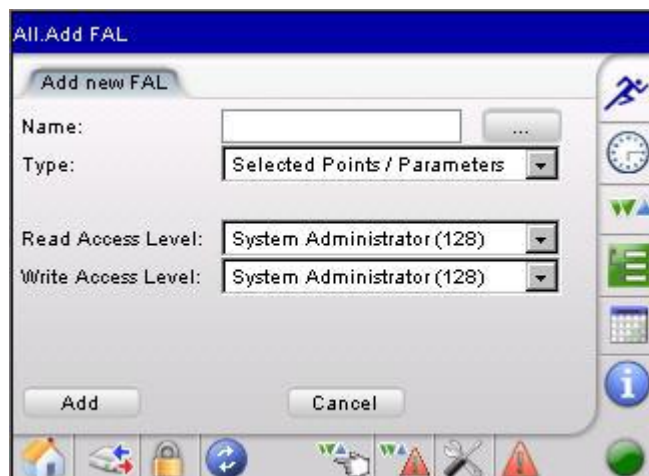
Selected Points/Parameters

Allows watching the impact of changed parameter values on datapoints. The parameter values are changed online.

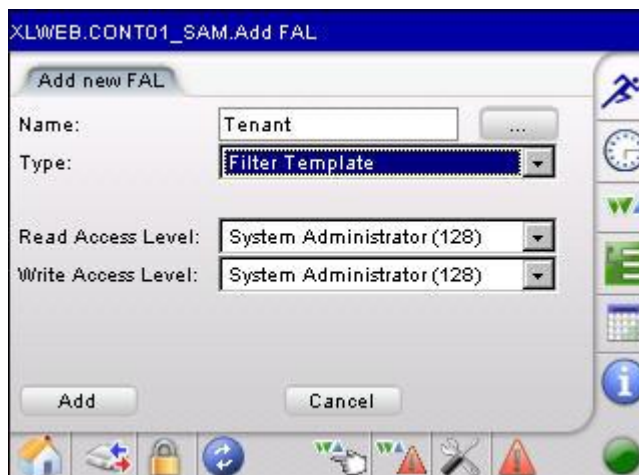
Filter Template

Allows quickly displaying certain datapoints of a plant.

NOTE: If the Filter Template option is selected, the *Parameters* tab will not be available later.



Fast Access List of Type “Selected Points / Parameters”



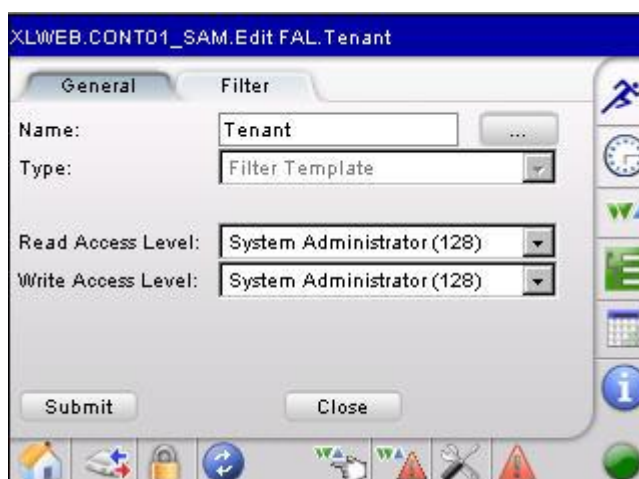
Fast Access List of Type "Filter Template"

8. Tap **Add** button.

RESULT: The *Edit FAL* screen displays.



General/ Tab Example: Selected Points / Parameters



General/ Tab Example: Filter Template

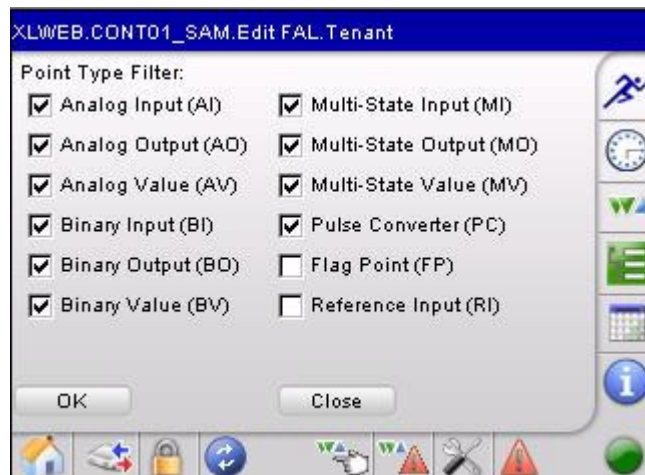
9. On the General tab, select you levels that should have read and write access of the fast access list from the **Read Access Level** and **Write Access Level** drop-down list boxes.
10. Tap **Submit** button.

11. If you have selected the fast access list type 'Filter Template', tap on *Filter* tab and continue with step 12. If you have selected the fast access list type 'Selected Points/Parameters', continue with step 13.

'Filter Template' Selection

12. On the Filter tab, do the following
- Right to the **Plant** field, select plant(s) of which you want datapoints to be displayed. Tap on the **Set** button to select the plants in the following screen.

- After selection of the datapoints, tap **OK**, and then tap **Close**.
- Right to the **Point Type** field, tap **Set** button and check/uncheck specific datapoint types to be included/excluded from the filter in the following screen.

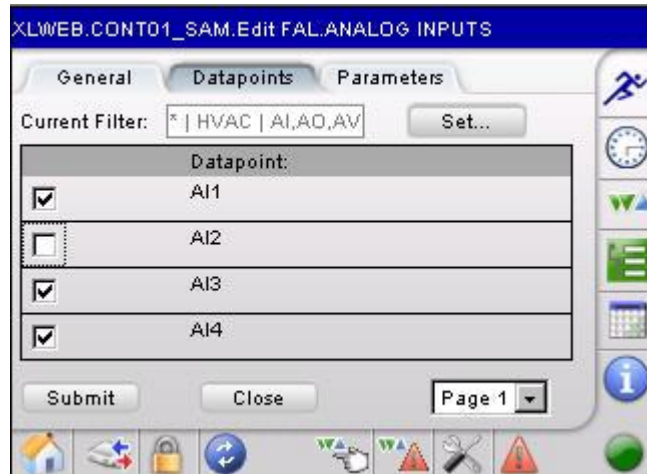


- d. After selection of the datapoints, tap **OK**.
- e. Right to the **Point Name**, tap **Set** button to filter specific datapoint names by entering a search text. By default all datapoints will be displayed as indicated by an asterisk.



- f. To display specific datapoint (names), enter the appropriate search text.
- g. Tap **OK** to apply the filter.
- h. On the **Filter** tab, configure the sort order by selecting the column title and sort type in the **First by** and **Then by** drop-down list boxes (see "Configure Sort Orders" section).

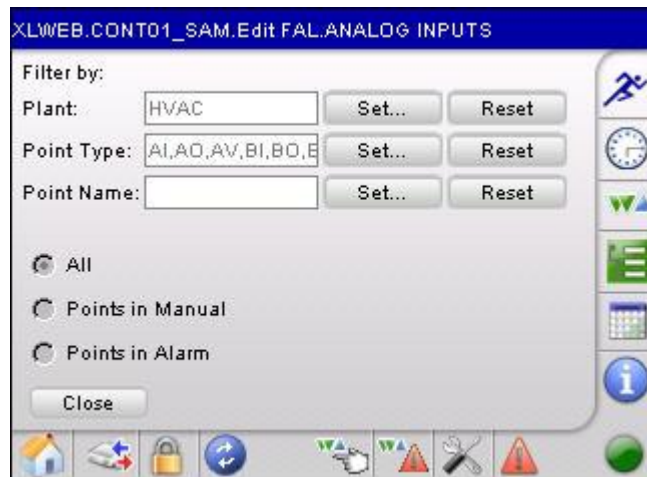
Selected Points/Parameters` Selection 13. Tap on the *Datapoints* tab.



Datapoints Tab Example

14. Under **Current Filter**, select the point types that should be used in the fast access list, as follows:

a. Tap **Set** button.

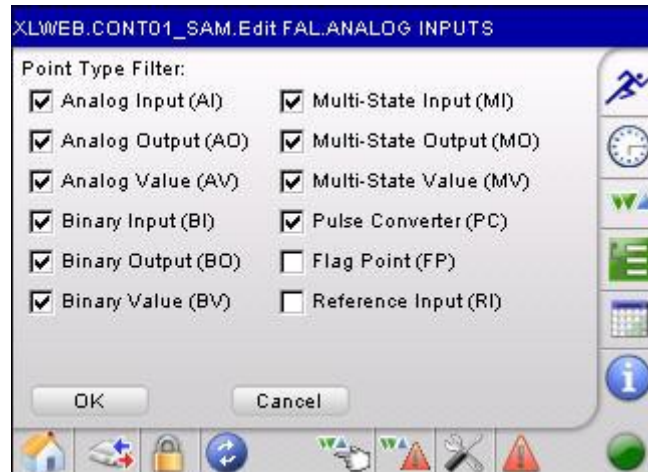


- b. Right to the **Plant** field, select plant(s) of which datapoints you want to be displayed by tapping the **Set** button and selecting the plants in the following screen.



- c. After selection of the datapoints, tap **OK**, and then tap **Close**.

- d. Right to the **Point Type** field, tap **Set** button and check/uncheck specific datapoint types to be included/excluded from the filter in the following screen.



- e. After selection of the datapoints, tap **OK**.
- f. Right to the **Point Name**, tap **Set** button to filter specific datapoint names by entering a search text. By default all datapoints will be displayed as indicated by an asterisk.

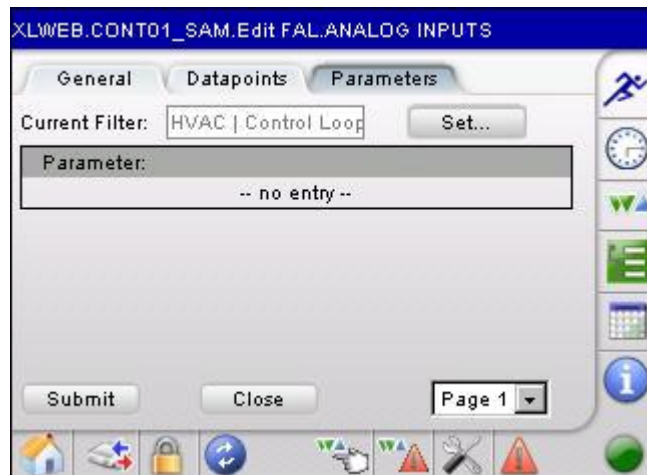


- g. To display specific datapoint (names), enter the appropriate search text.
- h. Tap **OK** to apply the filter.

15. Select further filter criteria under:

- All
displays all points
- Points in Manual
displays points set to manual only
- Points in Alarm
displays points that are in alarm only

16. Tap on the *Parameters* tab.



17. Right to the **Current Filter** field, tap **Set** button.

In the following screen you can you configure the parameter filter for assigning parameters to the fast access list. Filtering is possible for control loops on plant level. Filter criteria are parameter path and parameter name.



18. From the **Plant** drop-down list box, select the plant.
19. From the **Control Loop** drop-down list box, select the control loop.
20. From the **Function** drop-down list box, select the control function
21. Tap the **Submit** button to save settings done on the *General*, *Datapoints*, and *Parameters* tabs and tap the **CLOSE** button.

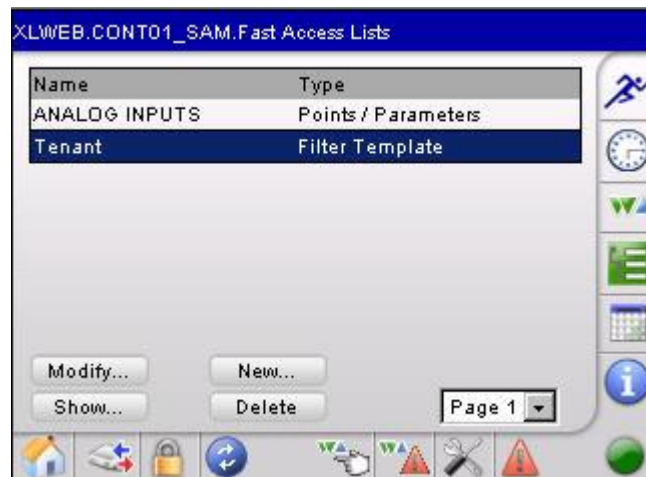
RESULT: The list is inserted under *Fast Access Lists* screen.

Modify Fast Access List

Procedure

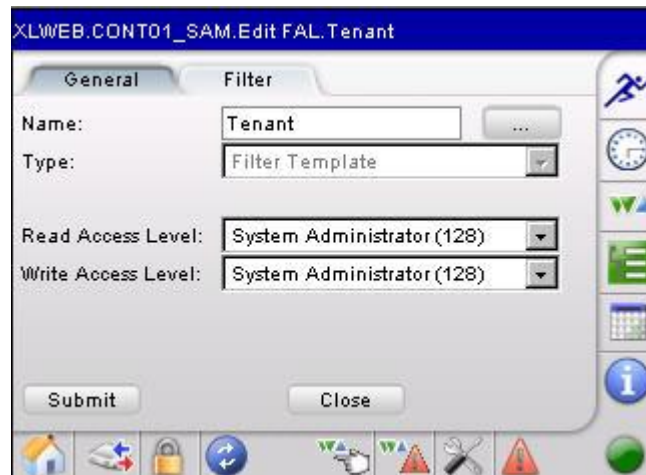
1. Tap on **Fast Access Lists** icon .

RESULT: The *Fast Access Lists* screen displays.



2. Tap the fast access list, you want to modify, in the list.
3. Tap the MODIFY button.

RESULT: The *Edit Fast Access List* dialog screen displays.



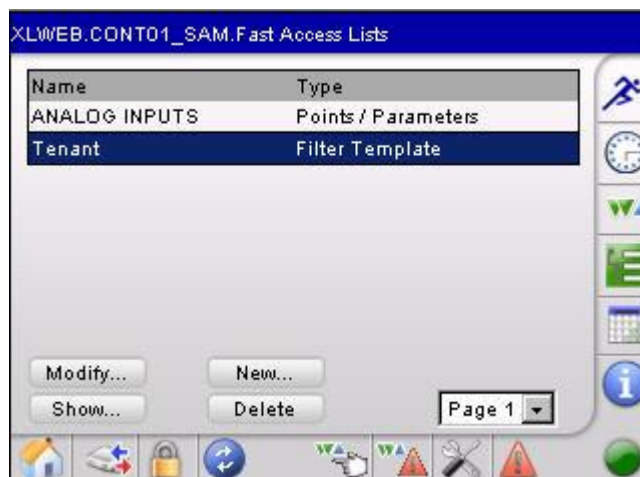
4. Modify the fast access list according to your needs on the *General*, *Datapoints* and/or *Parameters* tabs.
5. Tap the SUBMIT button to save settings.
6. Tap the Close button.

Delete Fast Access List

Procedure

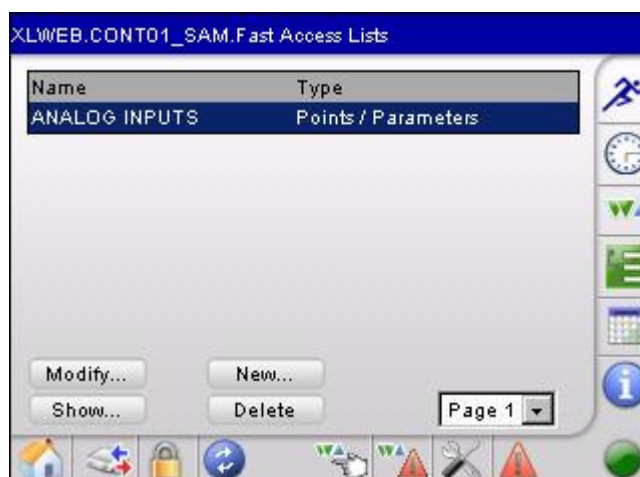
1. Tap on **Fast Access Lists** icon .

RESULT: The *Fast Access Lists* screen displays.



2. Tap the fast access list, you want to delete, in the list.
3. Tap the **Delete** button, and then tap the **OK** button in the message box asking if you are really want to delete the selected fast access list.

RESULT: The selected fast access list is deleted in the *Fast Access Lists* screen.

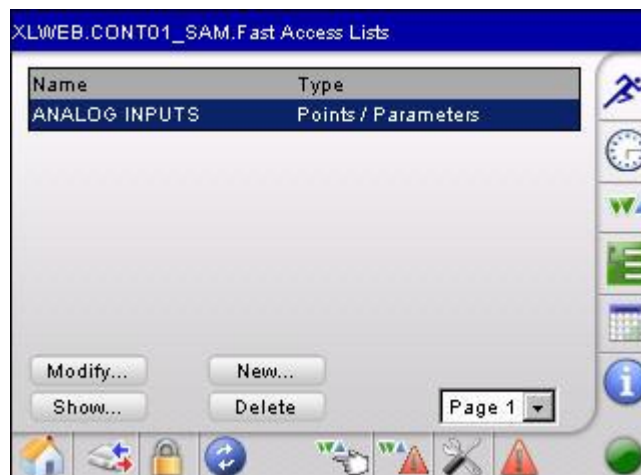


Show/Modify Point/Parameter From within Fast Access List

Procedure

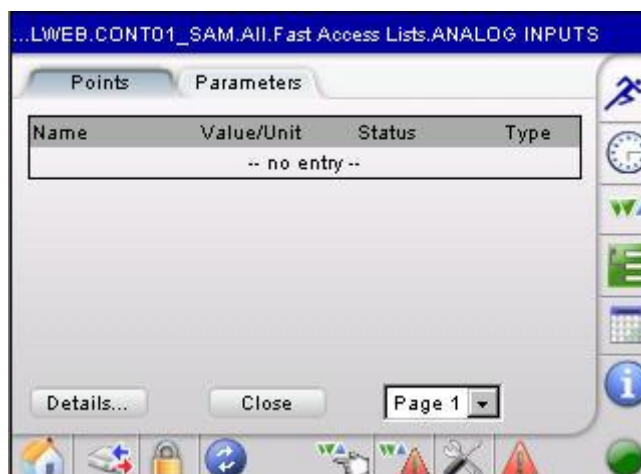
1. Tap on **Fast Access Lists** icon .

RESULT: The *Fast Access Lists* screen displays.



2. Tap the fast access list, that contains the points/parameters you want to view/modify, in the list.
3. Tap the **Show** button.

RESULT: The *Fast Access List* dialog screen displays. In the case, the fast access list is of type points / parameters, the *Points* and *Parameters* tabs are available. In the case, the fast access list is of type filter template, only the *Points* tab is available



4. On the *Points* tab, tap the point which you want to view/change.
5. On the *Parameters* tab, tap the parameter which you want to view/change.
6. Change point or parameter settings as described in the corresponding "View/Edit Datapoint Details" and "View Parameter Info/Change Parameter Value" sections.

Schedules

Schedules are daily and weekly time programs, which switch datapoints by setpoints or statuses. Schedules are assigned to plants and each schedule can command datapoints of that plant.

Each schedule specifies a list of switchpoints of datapoint values on a weekly basis. The week program defines the normal daily activity of the system by specifying which switchpoints are to be commanded each day of the week. The week program applies to a definable time period. There is only one week program per schedule.

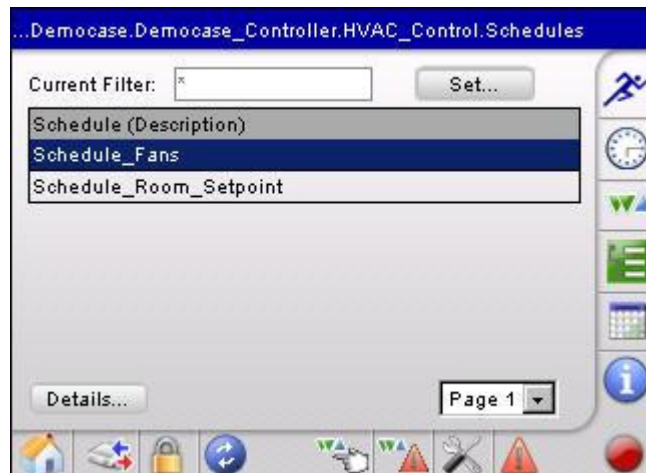
Besides the week program, specific programs called exceptions can be created. Exceptions have higher priority than the week program and will overwrite the week program for a single, or for a recurring day, or for a definable time period.

View Schedules

Procedure

1. Tap on *Schedules* icon .

RESULT: The *Schedules* screen displays, listing the schedules of all plants of the controller by default (limited by the page as selectable in the drop-down list box).



By setting a filter in the **Current Filter** field, you can list schedules with particular names, for example, all schedules beginning with the letter F.

2. To display specific schedules, tap **Set** button.



3. Enter a search string in the **Search String** field. Usage of wildcards (* and ?) is possible.

By default, all schedules will be displayed indicated by the asterisk. A blank filter displays all schedules too. If any text without wildcards is entered, the filter will search for an exact match. The search is case-sensitive.

4. Tap **OK** button.

All schedules matching the filter criteria will be displayed in the *Schedules* screen.

Schedules can be edited by tapping the **Details** button.

NOTE: Schedules cannot be deleted.

5. To edit a schedule, tap on the schedule name listed in the *Schedule Name* column, and then tap the **Details** button.

Edit Schedule

- Procedure**
1. On the *Schedules* tab, tap the **Details** button.

RESULT: The individual *Schedule* screen displays. By default the *Week* tab is selected.



2. Tap the *Details* tab.



Here you can enter the following details for the schedule:

- Description
- Valid period

3. In the **Description** field, enter a meaningful description (optional).
4. The valid period for the schedule will be defined by selecting the start and end date under **Valid From** and **Valid Until**.
5. To define or change the valid period of the schedule, do the following:

Tap the **Valid From** checkbox and enter the start date in the fields to the right. dd/mm/yyyy.

NOTE: If the checkbox is unchecked, no start date can be selected. This means that the schedule is valid on any date up to and including the end date.

Tap the **Valid To** checkbox and enter the end date in the fields to the right. dd/mm/yyyy.

...case_Controller.HVAC_Control.Schedule.Schedule_Fans

Details Week Rights Exceptions

Description: [Text Field]

☒ Valid From: 20 / 12 / 2007

☒ Valid To: 1 / 01 / 2008

0 1 2 3 4 ± ←

5 6 7 8 9 . ✕

Submit Close

NOTE: If the checkbox is unchecked, no end date can be selected. This means that the schedule is valid on any date from the start date on.

NOTE: If both checkboxes are disabled, the schedule is always valid.

6. Tap on **Submit** button and continue by tapping the *Week* tab.

...case_Controller.HVAC_Control.Schedule.Schedule_Fans

Details Week Rights Exceptions

Switchpoints: Monday

06 : 00 Running

07 : 00 Stopped

New Delete Delete

0 1 2 3 4 ± ←

5 6 7 8 9 . ✕

Submit Close Copy

On the *Week* tab, you create the weekly program that should be performed during the schedule period defined on the *Details* tab.

This is done by defining switchpoints. Switchpoints are time-value pairs per day that determine the time when the schedule sets a certain value.

Switchpoints can be deleted and copied to other weekdays.

7. Right to the **Switchpoints** field, select the day. Below the Switchpoints field the switchpoint times are shown. To the right, the status - running or stopped -, is displayed. By tapping the Scroll buttons right the **Delete** buttons you can view all switchpoints of the the selected day.
8. To add a new switchpoint, tap **New** button. A new row will be inserted

Switchpoints:

Time	Status	Action
06:00	Running	Delete
07:00	Stopped	Delete
	Stopped	Add

Submit Close Copy

9. Enter the time and value in the corresponding fields, and then select switching status from the drop-down list box.
10. Tap **Add** button. The third line disappears and the new switchpoint is added the selected day.
11. To delete a switchpoint, display the switchpoint using the scroll buttons.
12. Tap the **Delete** button(s).

NOTE: You can delete start and stop times of a switchpoint separately.

13. To copy a switchpoint, display the switchpoint you want to copy, using the scroll buttons.
14. Tap the **Copy** button.

RESULT: The following screen displays.

...case_Controller.HVAC_Control.Schedule.Schedule_Fans

Details Week Rights Exceptions

Copy From: Monday

Copy To:

☐ Tuesday ☐ Wednesday

☐ Thursday ☐ Friday

☐ Saturday ☐ Sunday

Mode: Overwrite complete day(s)

OK Cancel

Here you can copy a switchpoint from one single source weekday to one or multiple destination weekdays.

Under **Copy from**, the source weekday is displayed. Under **Copy To**, you select the Destination Weekday(s). Under **Mode**, you can define how duplication conflicts should be handled, for example, if the source switchpoint is on 7.00 and the target weekday already contains a switchpoint on 7.00.

15. Under **Copy To**, tap the weekday in the list.
16. Under **Mode**, select the mode by tapping the desired radio button at:

Overwrite complete day(s)

All existing switchpoints in the destination weekday(s) are deleted

Overwrite duplicates

Destination switchpoints with the same time as the source switchpoint are overwritten by the source switchpoint.

Do not overwrite duplicates

Destination switchpoints with the same time as the source switchpoint are not overwritten by the source switchpoint.

17. To save settings, tap the **OK** button.

RESULT: The previous screen redisplay.

18. Tap on **Submit** button and continue by tapping the *Rights* tab.



19. From the **Priority for Writing** drop-down list box, select the priority between 9 and 16 (lowest). The priority defines which priority the schedule will have in the BACnet priority array.

NOTE: Make sure, that the priority of the schedule is higher than the priority of the control loop (which is 15 by default). Otherwise the schedule will not be executed.

20. From the **Read Access level** drop-down list box, select you level that should have read access for the schedule.

Schedules will only be displayed in the XI882 if the read access level of you is equal to or higher than the read access level of the schedule.

21. From the **Write Access level** drop-down list box, select you level that should have write access for the schedule.

22. Tap on **Submit** button and continue by tapping the *Exceptions* tab.



Here you can create, edit, and delete exceptions.

An exception is a special daily switching program that differs from the weekly program. Exceptions can have different priorities and each exception will have a higher priority than the weekly program. Exceptions themselves can be prioritized to define the processing sequence in case exceptions have overlapping validity ranges. If the current date enters the valid period of the exception, the exception overwrites the daily program of that day.

23. To create a new exception, tap the **New** button.

RESULT: The following screen displays. The *General* tab is selected by default.



24. In the **Name** field, change the name of the exception, if desired.

25. Tap on *Switch Points* tab.



26. Tap on **New** button. A new row will be inserted.



27. Enter the time and value in the corresponding fields, and then select the switching status from the drop-down list box.



28. Tap **Add** button. The new switchpoint is added the selected day and the **New** and **Delete** buttons are available.



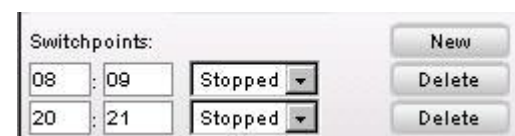
29. To add a new switchpoint, tap **New** button. A new row is displayed.



30. Enter the time and value in the corresponding fields, and then select the switching status from the drop-down list box.



31. Tap **Add** button. The new switchpoint is added the selected day and the **New** and **Delete** buttons are available.



32. If desired, continue by adding further switchpoints as described in the previous steps.
33. Tap on the *Valid Period* tab.

Here you define the valid period for the exception.

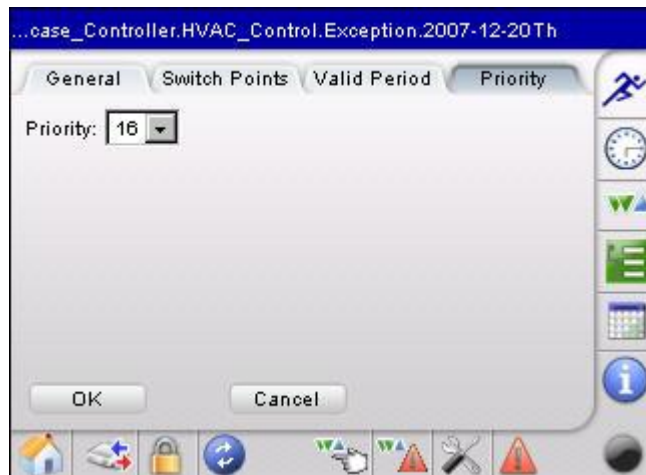
34. From the **Type** drop-down list box, select option under:
- Specific Date
e.g. for Christmas Eve on 24.12.2004
 - Date Range
e.g. for Summer holidays from 27.07.2004 until 09.09.2004
 - Recurring Event
e.g. for every last Friday of every Month
 - Calendar Reference
A project-wide calendar provides dates, e.g. regional holidays and public/religious festivals or any other particular date. The time period can be a specific date, a date range or a recurring event.
35. In the corresponding fields below, enter the data of the valid period:
- Specific Date**
In the **Date** fields, enter the date (dd/mm/yyyy).
You may use wildcards in any of the fields.
Example: 12/24/* represents Christmas Eve of each year.

Date Range
In the **Date Range From** and **Date Range To** fields enter the dates (dd/mm/yyyy).

Recurring Event
Under **Recurring on**, select options from the drop-down list boxes.

Example: Validity Type = Specific Date

36. Tap on **OK** button and continue by tapping the *Priority* tab.

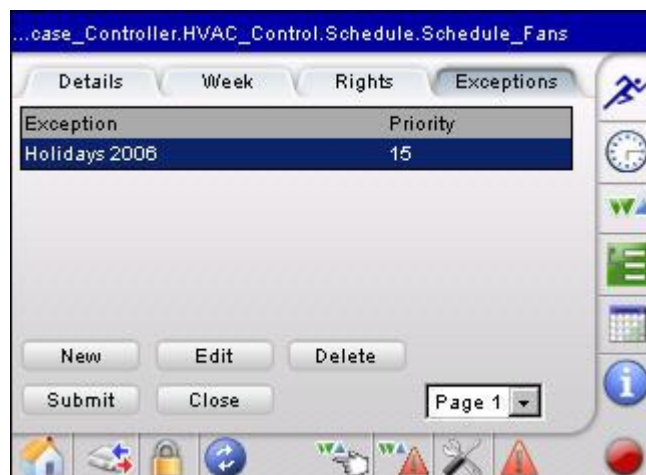


37. From the **Priority** drop-down list box, select the priority of the exception between 9 and 16 (lowest). The priority defines the processing sequence in case exceptions have overlapping validity ranges.

The priority defines which priority the schedule will have in the BACnet priority array.

NOTE: Make sure, that the priority of the schedule is not lower but equal to the priority of the schedule. Otherwise the priority will not be executed

38. To edit an exception, tap on the exception in the list. Then edit the properties you want to edit in the same way as described in the previous steps of this section.



39. To delete an exception, tap the exception in the list, and then tap the DELETE button.
40. To finish creating a new schedule, tap the SUBMIT button, and then tap the **Close** button.

RESULT: The schedule is changed and the *Schedules* screen redisplay.

Calendars

Calendars are assigned to a whole project. They contain exception days or periods, e.g. Christmas, holidays. If controller schedules refer to the same calendar(s), project wide scheduling is possible for these controllers; this is because calendar dates are executed in each controller of the project, which has references to the

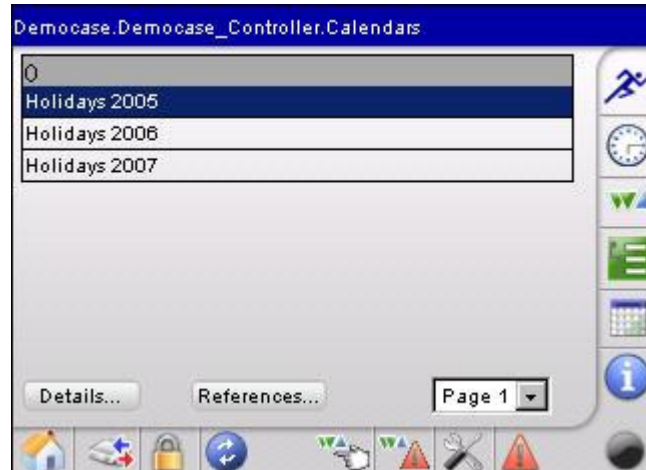
same calendar. Changes in multiple particular controller schedules can be quickly made by simply changing the referenced calendar(s).

View Calendars

Procedure

1. Tap on *Schedules* icon .

RESULT: The *Calendars* screen displays, listing the calendars of all plants of the controller by default (limited by the page as selectable in the drop-down list box).



2. To display details of a calendar, tap **Details** button.

The details show properties such as:

- Calendar Name
- Description
- Active
- Access rights
- Date range

3. To show referenced schedules of a calendar, tap the calendar in the list, and then tap **References** button.

Via **References** function, calendars can be edited, copied, deleted and newly created. For each calendar, the referenced schedules can be viewed.

NOTE: Calendars are only displayed if the read access level of you is equal to or higher than the read access level of the calendar.

Creating, editing, deleting and copying calendars is only possible if:

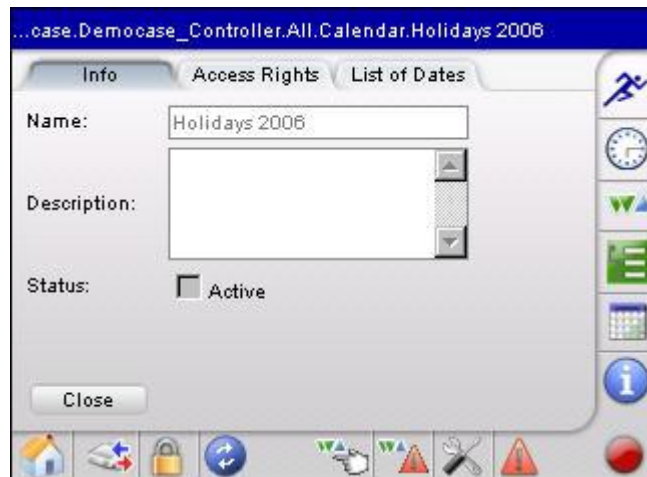
- you's access level is higher than the access level for creating, editing, deleting and copying calendars defined in you administration. Otherwise the **New**, **Delete** and **Copy** buttons are not displayed.
- you's write access level is equal to or higher than the write access level of the individual calendar.

View Calendar Details

Procedure

1. On the *Calendars* tab, tap the **Details** button.

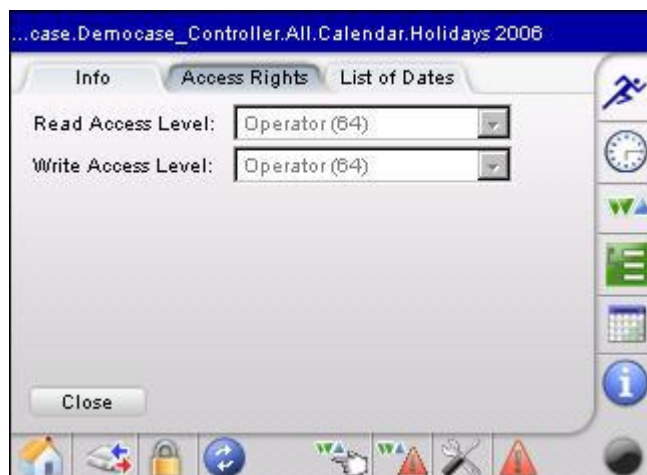
RESULT: The individual *Calendar* screen displays. By default the *Info* tab is selected.



The *Info* tab shows the following properties:

- Name
Name of the calendar
- Description
Meaningful additional description (optional)
- Status
The active status shows whether the current date is within the date range of any of the calendars' entries (checked) or not (unchecked), that is, whether the calendar impacts the current date or not.
- Access rights
- Date range

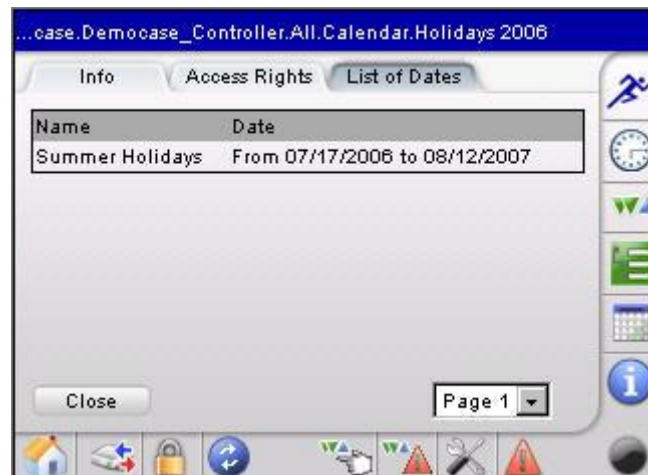
2. Tap the *Access Rights* tab.



The *Access Rights* tab shows the following properties:

- Read Access Level
- Write Access Level

3. Tap the *List of Dates* tab.



The *List of Dates* tab shows the following properties:

- Name
Name of referenced schedule
- Date
Date range of referenced schedule

4. Tap the **Close** button.

View Referenced Schedules

- Procedure**
1. In the *Calendars* screen, tap the calendar in the list, and then tap **References** button.

RESULT: The *References* screen displays showing all schedules which reference to the selected calendar via exceptions. You can view detailed information of the exception and edit the exception by tapping on the **Details** button. For detailed information on how to edit a referencing exception of a schedule, please refer to the "Edit Schedule" section.



Datapoints

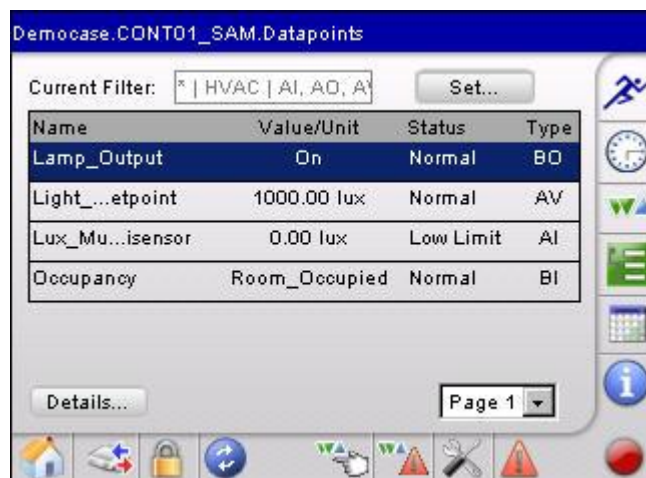
View Datapoint List

Datapoint lists can be displayed for all plants or for a particular plant.

Procedure

1. Tap on Datapoints icon 

RESULT: The *Datapoints* screen displays listing the datapoints of all plants of the controller by default (limited by the page as selectable in the drop-down list box). By setting a filter in the **Current Filter** field, you can list datapoints of particular plants, particular datapoints, for example, all analog datapoints, and datapoint with particular names, for example, all datapoints beginning with the letter D.



Datapoints can have the following properties:

- **Name**
A datapoint's details can be edited by tapping on its name
- **Value/Unit**
Shows the current value with engineering unit (analog datapoint) or state (digital datapoint)
- **Status (Event State)**
Shows the transition type
 - Normal**
The alarm is going to normal state, that is, the value of the datapoint remains under the high limit, or exceeds the low limit.
 - Off-Normal**
The alarm reaches off-normal state, that the datapoint value exceeds the high limit, or remains under the low limit.
 - Fault**
The alarm originates in a fault such as sensor break, etc.
 - High Limit**
Point value has exceeded the high limit. Special case of the Off-Normal state of analog inputs, analog outputs, and analog values.
 - Low Limit**

Point value has dropped below the low limit. Special case of the Off-Normal state of analog inputs, analog outputs, and analog values.

- Type
e.g. AI, AO, etc.

By tapping the **Details** button, further general properties and specific properties of the datapoint can be viewed and changed. For example:

General status flags settings

- ALM = point is in alarm
- FLT = point has a fault
- OVR = point value is overridden
- OOS = point is out of service

Specific properties, such as runtime of an digital output.

For detailed description of viewing and changing datapoint details, please refer to the “View/Edit Datapoint Details” section.

2. Under **Current Filter**, select the point types that should be displayed, as follows:
 - i. Tap **Set** button.
 - j. Right to the **Plant** field, select plant(s) of which datapoints you want to be displayed by tapping the **Set** button and selecting the plants in the following screen.
After selection of the datapoints, tap **OK**, and then tap **Close**.
 - k. Right to the **Point Type** field, tap **Set** button and check/uncheck specific datapoint types to be included/excluded from the filter in the following screen.
 - l. After selection of the datapoints, tap **OK**.
 - m. Right to the **Point Name**, tap **Set** button to filter specific datapoint names by entering a search text. By default, all datapoints will be displayed as indicated by an asterisk.
 - n. To display specific datapoint (names), enter the appropriate search text.
 - o. Tap **OK** to apply the filter.
3. Select further filter criteria under:
 - All
displays all points
 - Points in Manual
displays points set to manual only
 - Points in Alarm
displays points that are in alarm only
4. Tap **Close** button.

RESULT: In the *Datapoints* screen, all datapoints matching the filter criteria will be displayed.

NOTE: Only those datapoints can be displayed of which read access level is equal to or lower than the read access level of you.
5. To view or edit details, please refer to the “View/Edit Datapoint Details” section.

View / Edit Datapoint Details

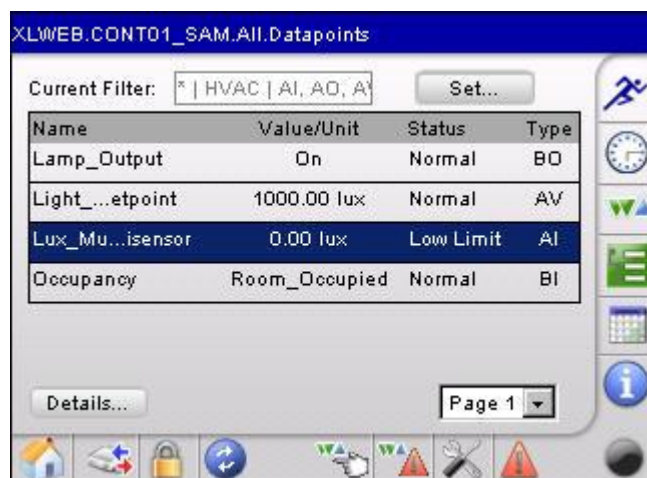
Viewing/editing datapoint details may include the following:

- View general properties such description, point role, and access rights
- Manually override the present value, that switch between Manual and Auto mode
- Enable/disable alarm reporting
- View alarm status (flags)
- Change COV value
- Change Relinquish Default value
- Enable/disable Off-Normal conditions

Continue with the "General Procedure" which describes where the functions will be accessible.

General Procedure

1. On the *Datapoints* tab, tap on the datapoint.



2. Tap the **Details** button.

RESULT: The *Details* dialog box of the selected datapoint displays.

Example: Analog Input Details of AI.



By default, the *Values* tab is selected.

2. View / change desired datapoint details by selecting the desired tab, of which functions are described in the following:
 - General
Shows general properties such as name, type, description, LON mapping data, and access rights.
See "View General Properties" section as follows.
 - Value
Manually override the present value, that switch between Manual and Auto mode
See "View / Edit Values" section in the following.
 - Status
View alarm status flags, the event state and the event transitions
See "View / Edit Status Properties" section as follows.
 - Alarm
View alarm information such as the notification class and alarm type and enable/disable Off-Normal conditions. In addition specific properties that are typical for the selected datapoint type, can be viewed/changed.
See "View / Edit Alarm" section as follows.
 - Misc
View/change of miscellaneous values, for example, value increment (COV), priority, polarity, reliability, manual life safety, and others.
See "View / Edit Miscellaneous Properties" section as follows.
 - Prio
View/Change relinquish default value
See "View / Edit Command Priorities" as follows.

View General Properties

- Procedure** 1. In the *Datapoints* screen of the selected datapoint, tap the *General* tab.



Here the following datapoint details are shown:

- Name
Shows the datapoint name
- Type
Shows datapoint type, e.g. analog input, binary input etc.
- #States
Shows the number of states of a multi-state datapoint (applies to MI, MO, MV datapoints only).

- **Description**
Shows a detailed description (optional)
- **Read Access Level**
Shows the read access level of the datapoint
- **Write Access Level**
Shows the write access level of the datapoint

To write values to a datapoint, you must have a write access level equal or higher than the write access level of the datapoint.

Datapoint details will only be displayed if you have a read access level equal to or higher than the read access level of the datapoint.

2. Tap the **Close** button to save settings.
3. To view /edit alarming details, tap on the *Alarming* tab (see "View / Edit Alarming" section).

View / Edit Values

Procedure

1. In the *Datapoints* screen of the selected datapoint, tap the *Value* tab.

Here you can manually override the present value, that is, switch between Manual and Auto mode and vice versa, view alarm status (flags) and change the COV value.

- **Auto Value** (applies to all datapoint types)
In Auto operation mode (Auto=checked), the datapoint shows the current value of the datapoint.
- **Manual Value** (applies to all datapoint types)
In Manual mode, the current datapoint value can be overwritten. To override the current value, tap the **Manual Override** radio button and enter the value into the field.

NOTE: When an AI datapoint is set into Manual mode and its value will be overwritten, the 'overridden' and 'out of service' flag will be set (see Status). The set out of service flag indicates that the datapoint is decoupled from the physical input (sensor) to prevent a sensor value from instantly overwriting the manual value in the next scan cycle..

NOTE: When an AO datapoint is set into Manual mode, its current value will be overwritten by the manual value that has a higher priority (8). As long as no other process of higher priority writes to the analog output, the manual value is present. The overridden flag will be set (see Status).

2. Tap the SUBMIT button to save settings.

3. To view /edit datapoint command priorities, tap on the *Command Priorities* tab (see "View / Edit Values" section).

View Status Properties

Procedure

1. In the *Datapoints* screen of the selected datapoint, tap the *Status* tab.

Here you can view the alarm status flags, the event state and the event transitions.

In the first line, the status flags are indicated (All datapoint types)

If checked, the status flags have the following meaning:

- In Alarm
Datapoint is in alarm. Cause can be faults, Off-normal conditions, and life-safety alarm.
- Fault
The datapoint or the physical input is not reliable, e.g. in case of sensor break (Open Loop).
- Overridden
Datapoint is in manual operation mode. Value has been overwritten.
- Out of Service
Physical input is decoupled from the datapoint, e.g. in case of manual override. The present value displayed is not the present value, which would be delivered by the physical input.

NOTE: Multiple flag indications are possible.

Example:

A 'To-Fault transition' causes also always an alarm. Hence both, the 'In Alarm' and the 'Fault' status flags are enabled.

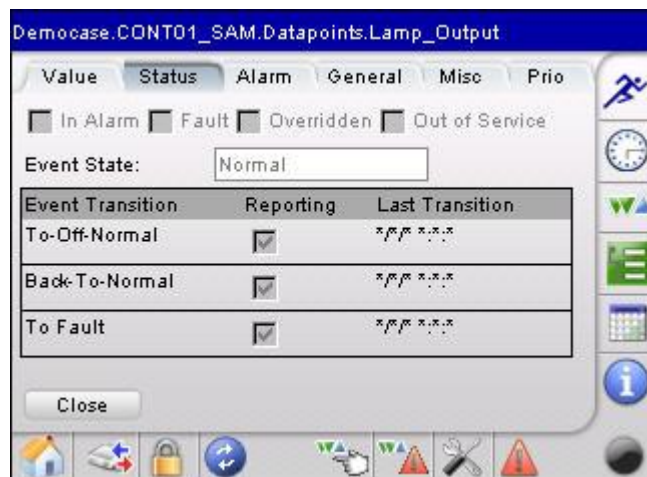
In the second line in the **Event State** field, the event state is displayed.

- Event State (All datapoint types)
Shows the event state of the datapoint:
 - Normal Operation
Point is in normal operating state.
 - Off-Normal Condition
Point value is out of normal range.
 - Fault
Point is prevented from proper operation. Point value can be in normal or out of normal range. Due to the maloperation of the point, the value is unreliable.
Causes for a fault can be, for example sensor and cable breaks.
 - Above High Limit
Point value has exceeded the high limit. Special case of the Off-Normal state of analog inputs and outputs.

- Below Low Limit
Point value has dropped below the low limit. Special case of the Off-Normal state of analog inputs and outputs.

In the table, the event transitions are shown.

- **Event Transition**
Shows the transition types that can be selected for reporting:
 - Back To-Normal
The alarm is going to normal state, that is, the value of the datapoint remains under the high limit, or exceeds the low limit.
 - To Off-Normal
The alarm reaches off-normal state, that is, the datapoint value exceeds the high limit, or remains under the low limit.
 - To Fault
The alarm originates in a fault such as sensor break, etc. (depends on point type)
- **Reporting**
Shows whether the transition type is reported and saved in the alarm buffer and in the alarmlist (checked) or not (unchecked).
- **Last Transition**
Shows the date when the last transition has occurred.



2. Tap the **Close** button.

View Alarm

Procedure

1. In the *Datapoints* screen of the selected datapoint, tap the *Alarm* tab.



Here you can view alarm information such as the notification class and alarm type. In addition specific properties that are typical for the selected datapoint type, for example, the dead band of an analog input, can be viewed

- Alarm Type / Class

By default, all alarms are of the type 'event'. Shows the name of the notification class. The value in brackets is the BACnet object ID of the notification class.

Note that only the present value property is to be considered for alarming.

The **High Limit Enable** and **Low Limit Enable** checkboxes are showing the conditions, which set off an Off-Normal event. The Off-Normal conditions depend on the point type.

- High Limit Enable (applies to AI, AO, AV, PC datapoints only)
If a high limit is exceeded and this condition remains present for at least the defined alarm delay (time), then an alarm of event type 'To-Off-Normal' is set off.
- Low Limit Enable (applies to AI, AO, AV, PC datapoints only)
If the present value falls below the low limit and this condition remains present for at least the defined alarm delay (time), then an alarm of event type 'To-Off-Normal' is set off.
- Deadband (applies to AI, AO, AV datapoints only)
In order to set off an alarm of event type 'To-Off-Normal', for at least the defined alarm delay (time) the present value must remain within the range: low limit plus deadband and high limit minus deadband.
- Alarm Delay (applies to all datapoint types, except PC datapoint)
Defines the time delay with which the 'To-Off-Normal' event will be set off.



- Alarm Value Enable (applies to BI and BV datapoint types only)
Here the alarm value (status) is displayed, e.g. 0 or 1, ON or OFF, Up or Down, when an alarm should be reported in case of of binary input changes. In addition, the alarm delay is displayed in the **Alarm Delay** field.

- State Text, Is Alarm Condition, Is Fault Condition (applies to MI and MV datapoint type only)

State Text	Is Alarm Condition	Is Fault Condition
AUTO (1)	☐	☐
MANUAL (2)	☐	☐

For Multi-State Inputs and Multi-State Value datapoints the states which represent and set off an 'Off-Normal' and/or a 'Fault' event are displayed.

Each state can be set for setting off an 'To-Off-Normal' and/or a 'Fault' event.

For each state, check the conditions by tapping the corresponding radio button.

2. Tap the SUBMIT button to save settings.
3. To view / edit datapoint values, tap on the *Values* tab (see "View / Edit Values" section).

View Miscellaneous Priorities

Procedure

1. In the *Datapoints* screen of the selected datapoint, tap the *Misc.* tab.

- Value Increment (applies to AI, AO, AV and PC datapoints only)

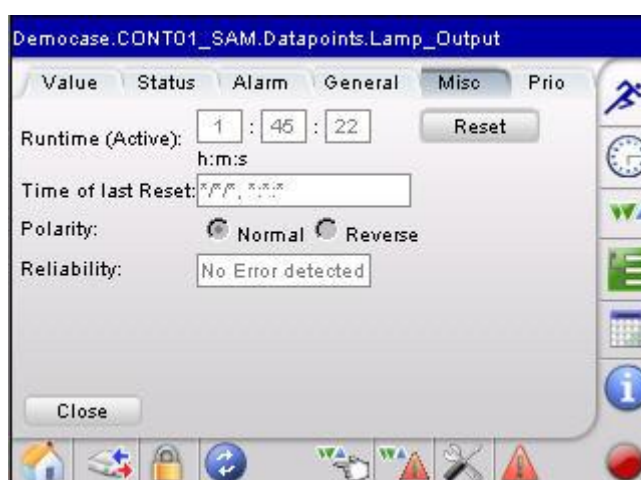
The COV (Change Of Value) increment specifies the minimum change in present value that causes the controller sending the present value to the XI882, to any other user browser interface and to BACnet clients on the network .

- Period (applies to Pulse Converter datapoint only)
Defines the amount of time in seconds between the periodic transmissions

of the present value. This property can be used alone or in combination with the Increment property. When the period property is used in combination with the increment property, the present value will always be updated periodically independent on the transmissions of the present value due to the COV setting.

- **Reliability (All datapoint types)**
Shows whether the hardware assigned to the datapoint is in proper condition or not. Depending on the datapoint type, the following conditions may be displayed:

No Error Detected	Loop is in proper condition, that is, present value is reliable; that is, no other fault has been detected.
No Sensor	Sensor may be not connected
No Output	Hardware may be not connected
Unreliable Other	The controller has detected that the present value is unreliable, but none of the other conditions describe the nature of the problem. A generic fault other than those listed above has been detected, e.g., a Binary Input is not cycling as expected.



- **Manual Life Safety (applies to AO, BO, MO datapoints only)**
Shows the status of the manual override switch or potentiometer of the LON module.
- **Feedback Value (applies to BO only).** Will be supported in a future version of Excel Web.
- **Polarity (applies to BI and BO datapoints only)**
The polarity indicates the relationship between the physical state of the input and the logical state represented by the present value. If the polarity is NORMAL, then the ACTIVE state of the present value is also the ACTIVE or ON state of the physical input. If the polarity is REVERSE, then the ACTIVE state of the present value is the INACTIVE or OFF state of the physical Input.

Polarity	Present Value	Physical State of Input	Physical State of Device
NORMAL	INACTIVE	OFF or INACTIVE	<u>not</u> running
NORMAL	ACTIVE	ON or ACTIVE	running
REVERSE	INACTIVE	ON or ACTIVE	<u>not</u> running
REVERSE	ACTIVE	OFF or INACTIVE	running

Select polarity by tapping corresponding radio button.

- **EOH/EOV Optimization (applies to AV, BV, and MV datapoints)**
Check whether the datapoint should be optimized (Yes) or not (No), in case the datapoint is used as setpoint for energy optimized heating or ventilation.

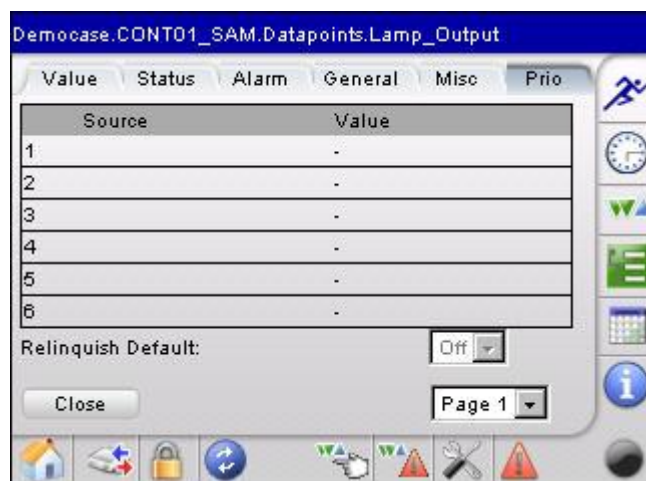
- **Current Value** (applies to PC datapoint only)
Shows the current accumulated value of the datapoint.
- **Reset To** (applies to PC, BI and BO datapoints only)
Here you can reset the current value to a specific value. The counting will restart.
- **Time of Last Reset** (applies to PC, BI and BO datapoints only)
Shows the time of the last reset.
- **Runtime Counter** (applies to BI and BO datapoints only)
Here you can view the current runtime and reset the runtime counter to a specific time (e.g. in case of maintenance, change of pump).

To reset the runtime counter, enter the value into the **Reset to** field and tap the **OK** button.

View / Edit Command Priorities

(Applies to AO, AV, BO, BV, MO, and MV datapoint types only)

1. In the *Datapoints* screen of the selected datapoint, tap the *Prio* tab.



Here you can view the command priority levels and enter/change the relinquish default value.

The priority list has descending priority. The value on the highest priority level is written to the present value.

- **Relinquish Default**
This value will be written to present value, if all values in the priority list are invalid.

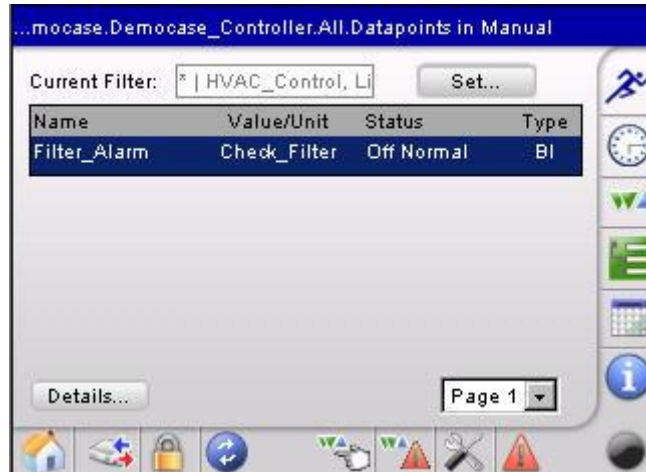
Enter relinquish default value into the field.

2. To save changes, tap the SUBMIT button.

Show Datapoints in Hand

1. Tap the  icon.

RESULT: The *All Datapoints in Manual* screen displays listing all datapoints that are currently set to manual mode, based on the selected filter..



2. For detailed description on how to proceed on this screen, please refer to the “View Datapoint List” section.

Parameters

Parameters are used for configuration and tuning of the application program via control loop. A typical example of a parameter is the Integral Time of the PID control function.

Parameters are part of a control icon which itself is part of a control loop which itself is part of a plant, etc. Hence, the parameter can be described and addressed by its path as follows:

plant – control loop – control function - control icon – parameter

A parameter is defined by:

- Symbol type
- Name
- Value/Engineering unit (state text)

Parameters belong to control icons and define the icon behavior. Control icons will be interconnected within a control loop that performs a control program. A control loop itself can also have parameters. Control icons can internally be composed of other icons (control function). For example, a XFM is a control function. Control functions can have max. 4 internal control icons. It will not be distinguished between parameters of input and output control icons. Parameters can be written to and read from the control program. However parameters cannot be prioritized. The parameters origin (location) will be shown as path with the following structure: plant-control loop-control icon.

NOTE:

If no parameters are displayed, one of the following may be the reason:

A) You do not have rights to read control loops and parameters

or

B) All or some of the parameters have been intentionally engineered in CARE not to be displayed in the XI882 and the big user interface (browser with 800x600 resolution).

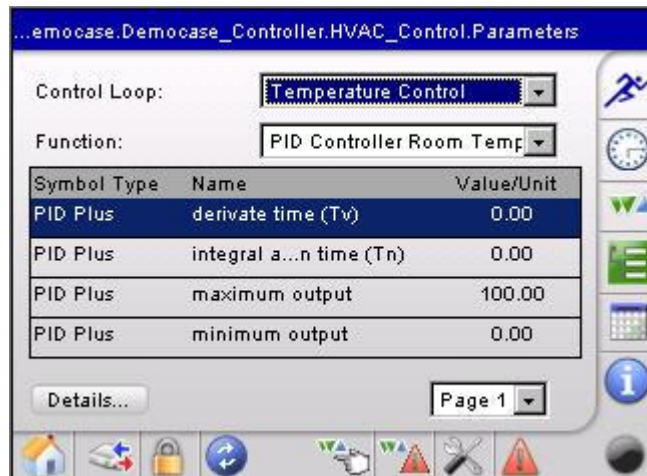
View Parameters List

Parameters lists can be displayed for all plants or for a particular plant.

Procedure

1. Tap on Parameters icon 

RESULT: The *Parameters* screen displays listing the parameters of all plants of the controller by default (limited by the page as selectable in the drop-down list box).

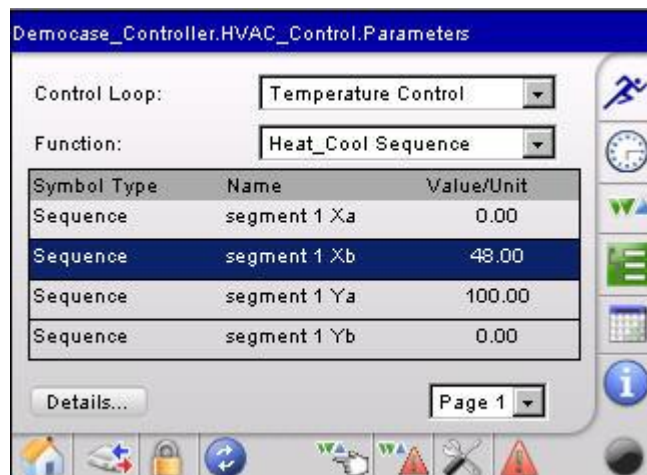


Parameters have the following properties:

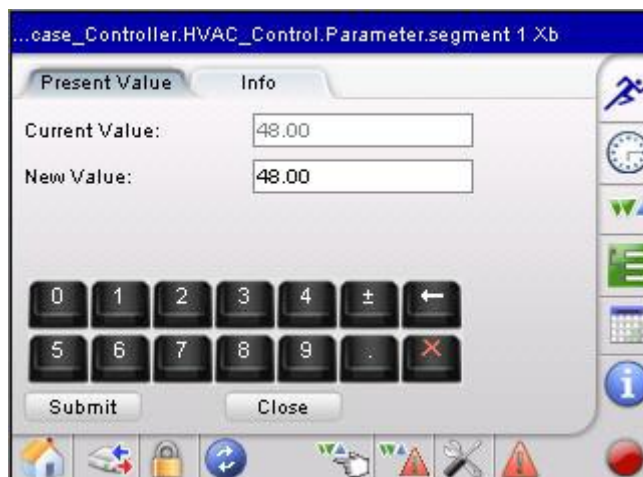
- **Symbol Type**
Shows the control icon name which the parameter belongs to.
 - **Name**
Name of the parameter
 - **Value/Unit**
Current value and associated engineering unit (analog) / state text (discrete)
2. By tapping the **Details** button, you can view parameter information and change the present parameter value (see “View Parameter Info / Change Parameter Value” section).

View Parameter Info / Change Parameter Value

1. In the *Parameters* screen, tap the parameter, and then tap the **Details** button.



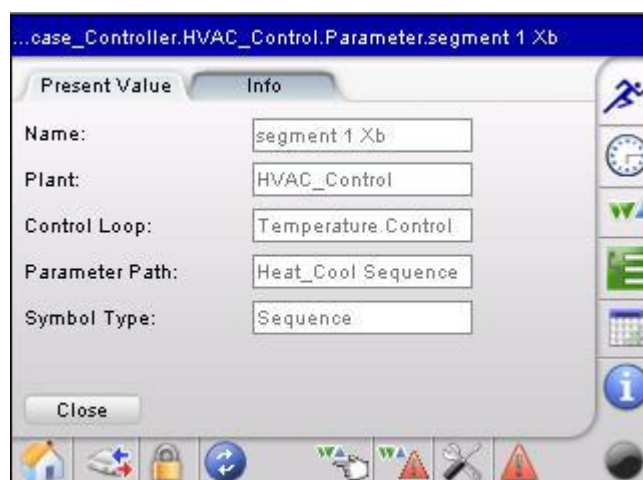
RESULT: The Control Parameters screen displays the *Present Value* and the *Info* tabs.



2. To change a value, enter the new value in the **New Value** field on the *Present Value* tab.



3. Tap **Submit** button.
4. To view parameter information, tap *Info* tab.



The parameter information shows the following properties:

- Name
e.g. segment 1.xb
- Plant
e.g. HVAC_Control
- Control Loop
e.g. Temperature Control
- Parameter Path
e.g. Heat Cool Sequence
- Symbol Type
e.g. Sequence

Example:

If a parameter, for example, segment 1.xb, belongs to the symbol type `Sequence` which is part of the control macro `Heat\_Cool Sequence`, which is subprogram of control loop `Temperature Control` which controls the plant `HVAC\_Control`, the following is shown:

Symbol Type: Sequence
 Parameter Path: Heat_Cool_Sequence
 Control Loop: Temperature Control
 Plant: HVAC_Control

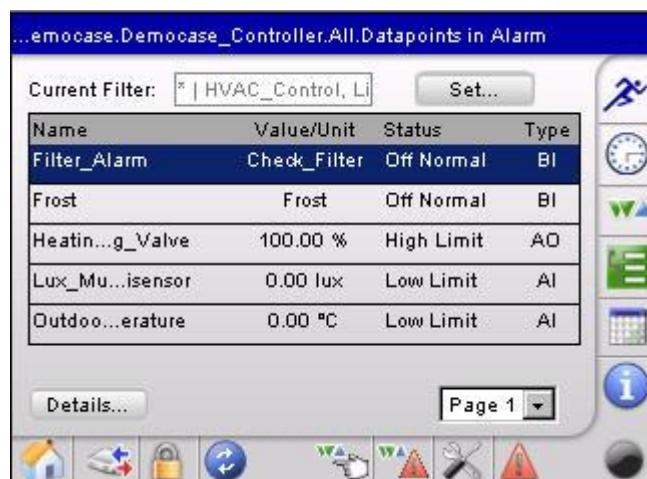
5. Tap **Close** button.

Alarms

View Datapoints in Alarm

1. Tap the  icon.

RESULT: The *All Datapoints in Alarm* screen lists all datapoints that are currently in alarm, based on the selected filter.

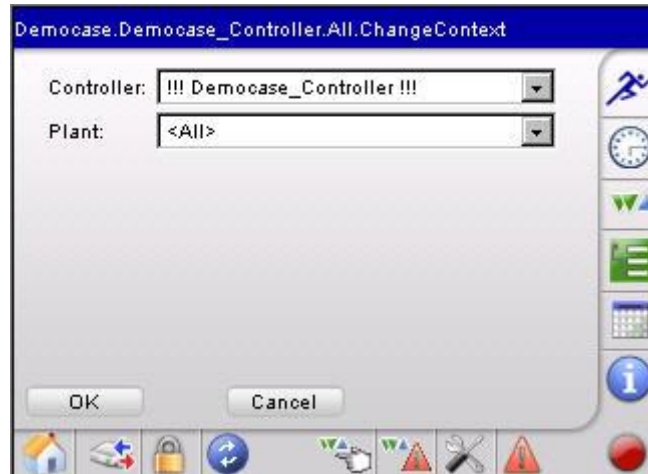


2. For detailed description on how to proceed on this screen, please refer to the "View Datapoint List" section.

View System Alarms

1. Tap the  icon.

RESULT: The screen for selecting the controller and plant of which system alarms you want to show, is displayed.



2. Tap the **Controller** drop-down list box and select the controller.
3. Tap the **Plant** drop-down list box and select the plant.
4. Tap the **OK** button.

RESULT: The *All Alarms* screen displays showing all current system alarms.



For each system alarm, the following properties are shown in the list:

- Time
Shows the time, when the alarm has occurred. Newer alarms are highlighted in red. By tapping on the entry, alarm details can be viewed.
- Category
Shows the category of the alarm:
 - Urgent
Alarm has urgent priority (range 0...84)
 - High
Alarm has high priority (range 85...169)
 - Low
Alarm has low priority (range 170...250)
- Source
Shows the datapoint name
- Alarm Text
Shows the alarm message as defined in the Engineering tool.

Under **Current Filter** you can create an alarm filter for displaying alarms by status (new, all), category (urgent, high, low) and by time range in the alarm list.

5. Tap the **Set** button.

RESULT: The *All Alarms Filter* screen displays.

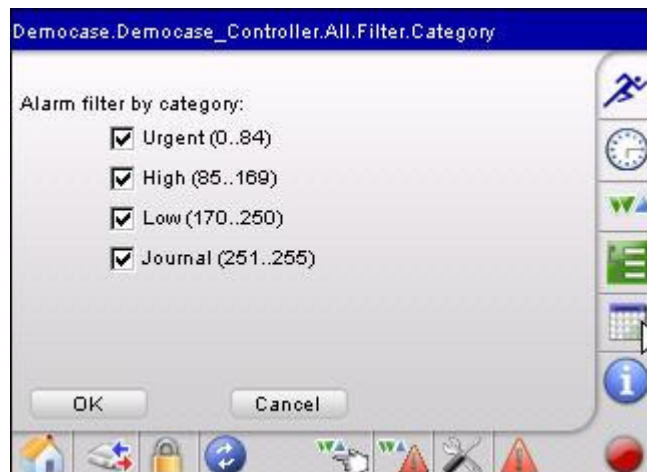


6. In the **Status** drop-down list box, tap the status under:

- Only New
Displays new alarms of the defined time range.
- All
Displays all alarms, regardless of their status, of the defined time range.

7. In the **Category** drop-down list box, tap the **Set** button.

RESULT: The *All Filter Category* screen displays.



8. Tap the category under:

- Urgent
Displays alarms with urgent priority
- High
Displays alarms with high priority
- Low
Displays alarms with low priority
- Journal
Displays alarms with journal (lowest) priority

NOTE: When all categories are selected, there will be no entry in the **Category** field.

9. Tap the **OK** button.
10. Right to the **Date/Time** field in the *All Alarms Filter* screen, tap **Set** button.

RESULT: The *All Filter Time* screen displays.

11. Tap the **From Date** and **To Date** checkboxes.
12. Enter the dates in the first three fields and the times in the last three fields

NOTES:

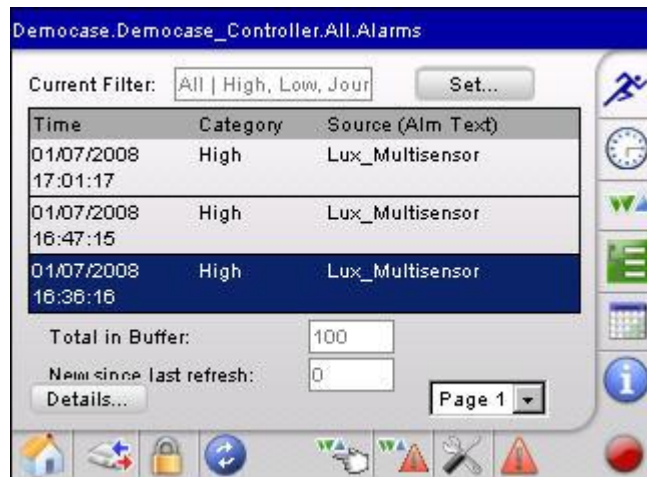
If the **From Date** checkbox is unchecked, the fields are disabled. This means, that alarms of any date up to and including the end date, will be displayed.

If the **To Date** checkbox is unchecked, the fields are disabled. This means, that alarms of any date from the start date on will be displayed.

If both fields are disabled, all alarms of the alarm buffer will be displayed.

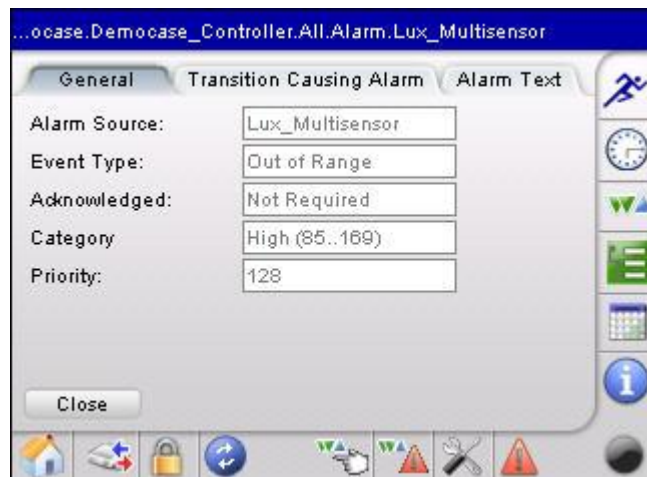
13. Tap the **OK** button.
14. In the *All Alarms Filter* screen displays, tap the **OK** button.

RESULT: The *All Alarms* screen redisplay showing the filtered alarms.



15. To view alarm details, tap the alarm in the list, and then tap the **Details** button.

RESULT: The individual screen of the system alarm displays. By default, the *General* tab is selected.



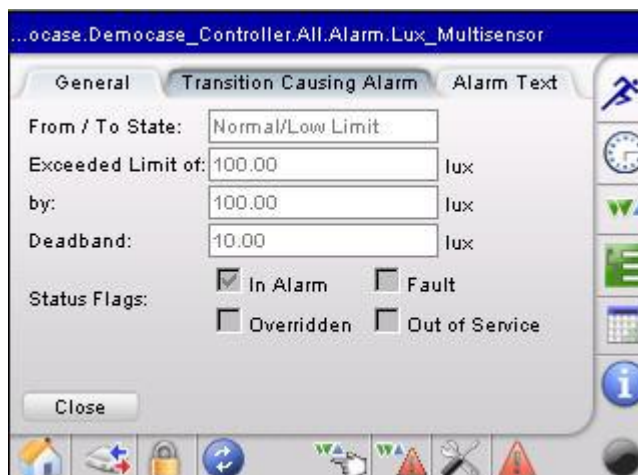
On the *General* tab, the following properties are shown:

- Alarm Source
Shows the name of the datapoint that caused the alarm
- Event Type
Different datapoints may cause different event types as shown in the following:
 - Change of state
Present value has changed to a new state for longer than the time delay.
Can be caused by BI, BO, BV, MI, MO, MV.
 - Out of range
Present value has exceeded range between high limit and low limit for longer than the time delay.
Or, present value has returned between the high limit - deadband and the low limit + deadband range for longer than the time delay.
Can be caused by AI, AO, AV.
 - Command failure
Present value differs from feedback value for longer than the time delay.
Can be caused by AO, BO, MO.
- Acknowledged
(Not required)
NOTE:
Alarm acknowledgement is not applicable, hence alarms are set to NO by default.

- **Category**
Shows the category:
 - Urgent
Alarm has urgent priority (range 0...84)
 - High
Alarm has high priority (range 85...169)
 - Low
Alarm has low priority (range 170...250)
- **Priority**
Depending on the category, the alarm states NORMAL, OFF-NORMAL, FAULT have different values in the corresponding priority range. Hence, the priorities of the transitions (changes from one state to another state) are as follows:

Event (Alarm) Category	Transitions		
	To Normal	To Off-Normal	To Fault
Urgent (range 0...84)	83	0	42
High (range 85...169)	168	86	127
Low (range 170...250)	250	171	210

16. Tap the *Transition Causing Alarm* tab.



On the *Transition Causing Alarm* tab, the following properties are shown:

- **From / To State**
Describes the event transition causing the alarm.

Examples:

From Normal to Off-normal
From Off-normal to Normal

- **Exceeded Limit of**
- **by**
- **Deadband**
- **New Value**

In these fields, the values that caused the alarm are displayed. The engineering unit depends on the datapoint type. For example, for an alarm of a light sensor, the values are shown in lux.

NOTE:

Shows the value and unit. In case of BI, BV, MI, MV, it may be a new value, in case of AI, AO, AV it may be an exceeding value, in case of BO, MO, it may be a command value.

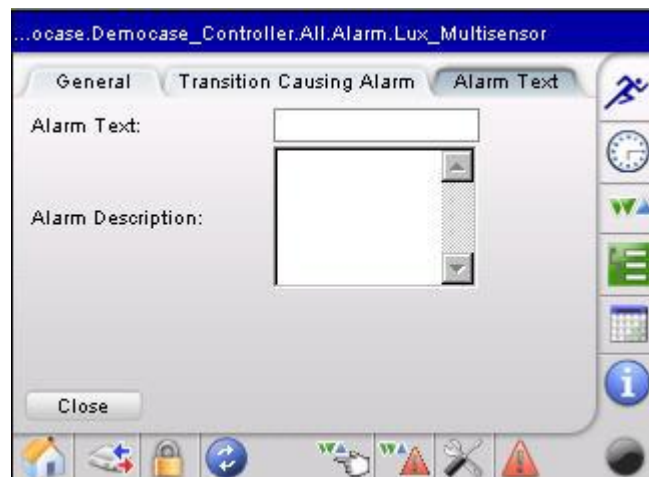
- Status Flags
Shows the set status flags:
 - In Alarm
When enabled, the datapoint is in alarm. Cause can be faults and Off-Normal conditions.
 - Fault
When enabled, the datapoint or the physical input is not reliable, e.g. in case of sensor break (Open Loop).
 - Overridden
When enabled, the datapoint is in manual operating state. The value has been overwritten.
 - Out of Service
When enabled, the physical input is decoupled from the datapoint, e.g. in case of manual override for inputs. The present value displayed is not the present value, which would be delivered by the physical input.

NOTE: Multiple flag indications may be possible.

Example:

A 'To-Fault transition' causes also always an alarm. Hence both, the 'In Alarm' and the 'Fault' status flags are enabled.

17. Tap the *Alarm Text* tab.



On the *Alarm Text* tab, the following properties are shown:

- Alarm Text
Shows the alarm text entered with the engineering tool.
- Alarm Description
Shows the alarm text optionally entered with the engineering tool.

18. Tap **Close** button after having viewed the alarm details.

SERVICE FUNCTIONS

The following service functions allow updating the application software of the XI882, and setting up and changing the Windows CE configuration. By default and by intention, the Windows CE (WIN CE) operating system is hidden from the user. Without the procedure described in the following section it is not possible to get access to the desktop of the WIN CE operating system.

For both service functions, application software updates and Windows CE configuration modifications, you need to perform the steps described in the "Initial Steps" section.

Initial Steps

WARNING

Do not rename any directories and files. Otherwise the unit may stop working.

1. Take an USB memory stick that is supported by the WIN CE operating system of XI882.

The following USB memory sticks have been used successfully:

- Toshiba U3 Smart, 1GB (This stick is also used for CARE licensing)
- Iomega, 128MB to 512 MB
- Scandisk, 128 MB to 512 MB
- Kingston 128 MB to 512 MB
- Hitachi HTS 541040G9AT00, 32 MB
- Red, thick Honeywell USB stick, 64 MB

When using any other stick, you have to find it out by trial and error, if it works properly.

2. Unpack and copy the following files onto the memory stick:

Admini.ini

The *admin.ini* file is a simple *TXT* file, which only has to contain the following information in the first line:

```
Mode=Development
```

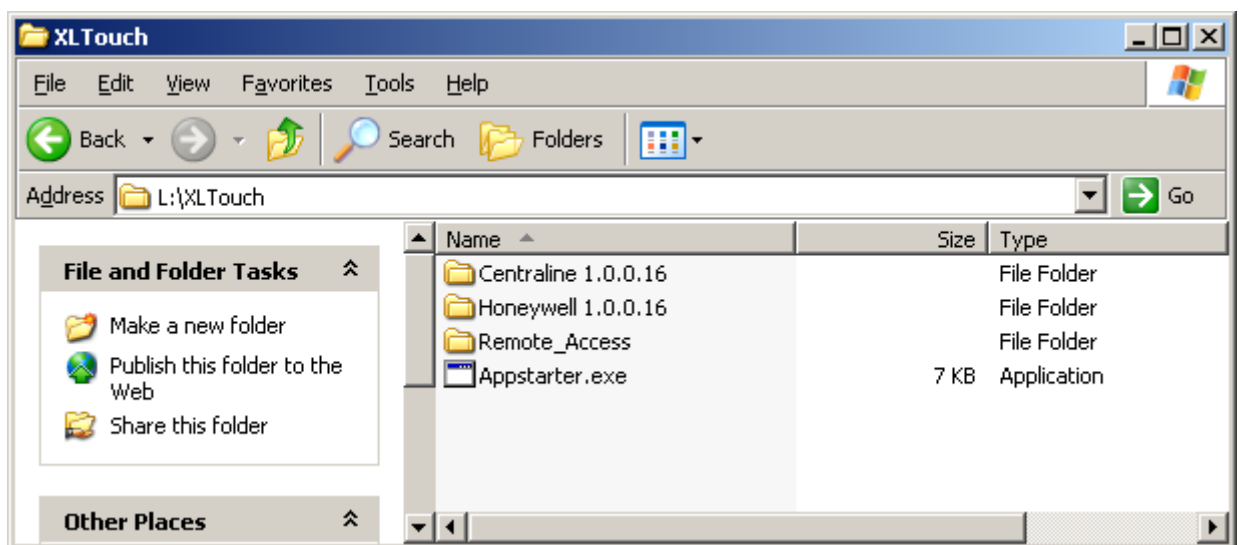
This file must be in the root directory of the USB stick, because when XI882 is booting, WIN CE will search for this file, and then allows access to the WIN CE desktop.



XI882 Software Files

For an easier handling, you can put these files in a separate folder. Give the folder the name *XLTouch*, because the target folder on the Excel Touch also has this name by mandatory. In the example below, these files are named 'Honeywell 1.0.0.16'.

Don't care about the file *Appstarter.exe* on the memory stick as shown in the screenshot below.

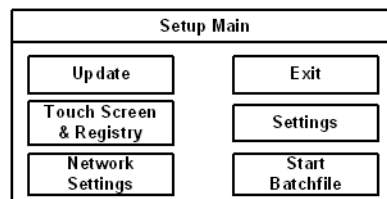


3. Insert the USB memory stick into any USB port of the XI882.
4. Disconnect power from the XI882, and then re-connect power to the XI882.

The device is booting. Firstly, the Win CE image is loaded from the device's Flashdrive into the RAM, while the Honeywell / CentraLine logo is displayed. Secondly, WIN CE is started, while the Honeywell / CentraLine logo is displayed. Thirdly, the screen goes black for about three seconds. Now the **Press For Setup Main Menu** button appears for only 5 sec. and is active.

5. Tap the **Press For Setup Main Menu** button within 5 sec. If you miss the time slot of 5 sec., disconnect and re-connect power to let the device boot again.

After successfully tapping the **Press For Setup Main Menu** button, the *Setup-Main* menu is displayed.



6. For XI882 application software updates, tap the **Exit** button. Continue with the steps described in the “Update XI882 Application Software” section.
7. For Windows CE modifications and updates, continue with the steps described in the “Update Windows CE Image” and “Setup / Change the Windows CE Configuration” sections.

Update XI882 Application Software

1. Perform steps 1 through 6 of “Initial Steps” section if not already done.

After finishing step 6 with tapping the **Exit** button, the Windows CE desktop is visible.

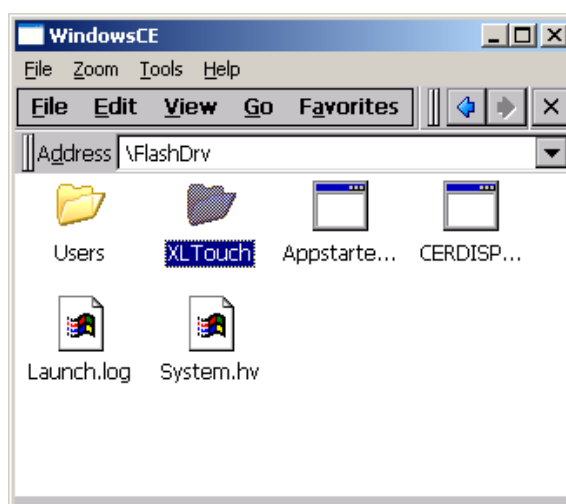


The folders shown in the below screenshot are displayed.

2. Double-tap on the “MyDevice” icon.
Flashdrv is the Flash memory of XI882 and *HardDisk* is your USB memory stick.



3. Double-tap on *Flashdrv.*, and then erase all files in the *XI882* folder.



WARNING

Do not rename or delete the 'XLTouch' directory. Otherwise the unit will not work anymore.

4. Double-tap on *HardDisk*, which is your USB stick.



5. On the *HardDisk* folder, select all files and directories of the *XLTouch* folder (or the individual folder where you have put the software files for XI882).



6. Copy and paste the selected files and directories to the folder *Flashdrv\XLTouch*.
7. Remove the USB memory stick, and disconnect/re-connect power to XI882. The device will boot now and after booting is complete, it will display the *Auto Detection screen* for Excel Web / Excel 500 / Panther controllers:
 - If an Excel 500 controller/Panther is connected, it will start the operation.
 - If an Excel Web controller is connected, it will start the IP configuration or start the browser with all IP settings that are already matching
 - If both, EXCEL 500 / Panther and Excel Web controllers are connected, it will give you the choice for operation of one of them.

Update Windows CE Image

Make sure that the following directories exist (or are created) on the USB memory device:

- Bootloader (must contain the bootloader file)
- Image (must contain the WIN CE image file)

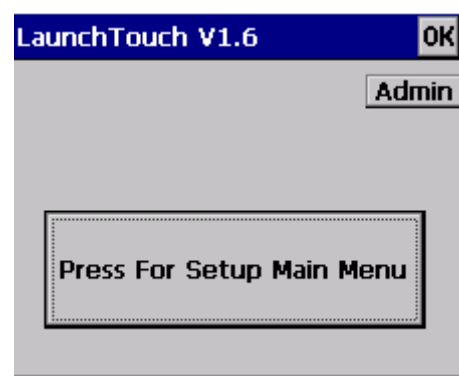
1. Perform steps 1 through 6 of “Initial Steps” section if not already done.

After finishing step 6 with tapping the **Exit** button, the Windows CE desktop is visible.

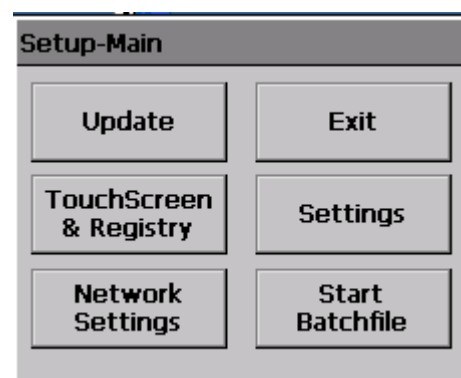


Updating Boot Loader

2. Click on *Launch* icon. The following screen displays.



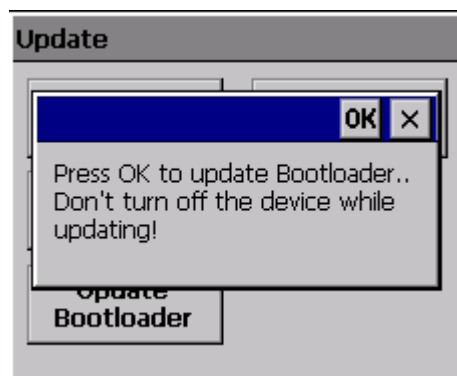
3. Click **Press For Setup Main Menu** button to display the *Setup-Main* screen.



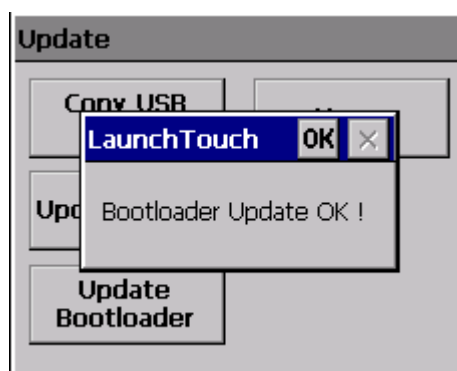
4. Click **Update** button to display the **Update** screen.



5. Click **Update Bootloader** button. The following message box displays.



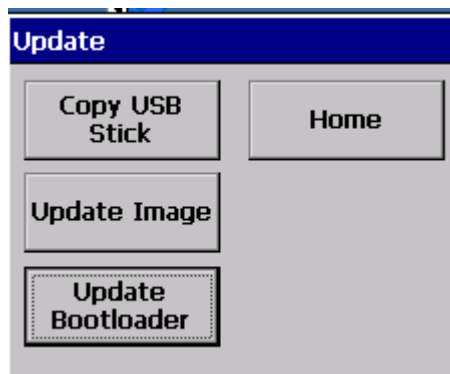
6. Click **OK** button. The following message box displays



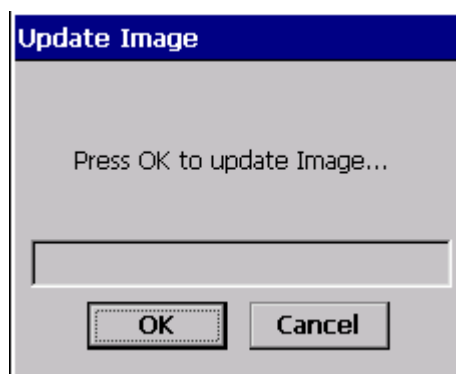
7. Click **OK** button.

Updating OS Image

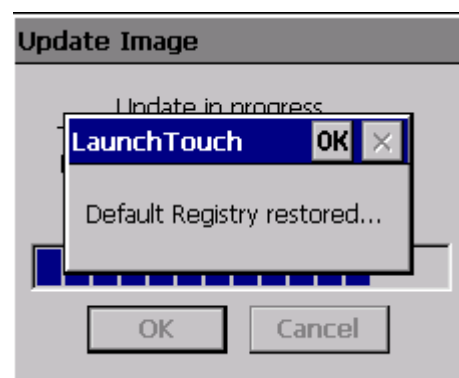
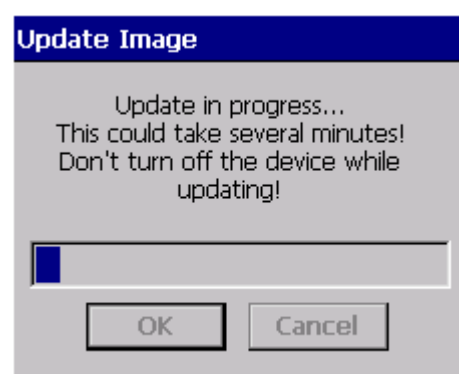
8. In the *Update* screen, click **Update Image** button.



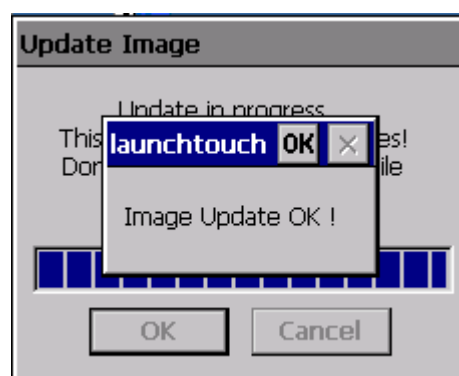
The following screen displays.



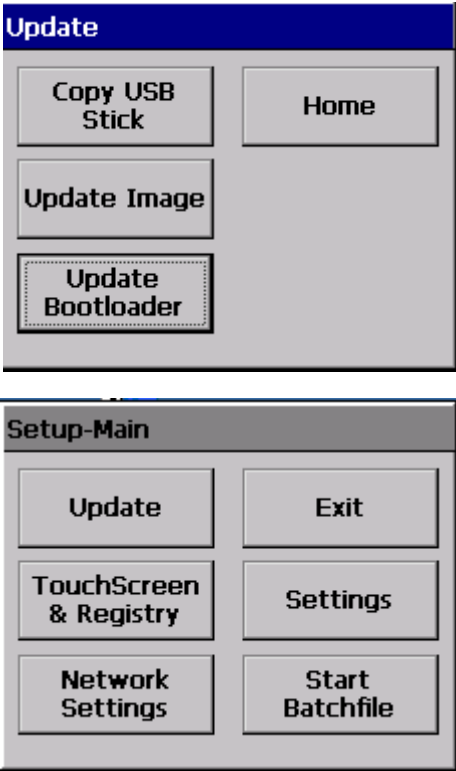
9. Click **OK** button. The image updating is started and the progress is indicated as shown in the following message box.



10. Click **OK** button after successful completion of the registry restoration.
11. Click **OK** button after successful completion of the image update as shown in the following message box.



12. Click **Home** button in the *Update* screen to return to the *Setup-Main* screen.



13. Click **Exit** button to return to the Win CE desktop.

Updating Appstarter.Exe

14. Copy “Appstarter.exe” file from the root of the USB Memory stick to the root of “Flashdrv” drive in the XI882 device. If there is an existing “Appstarter.exe” file, you will be asked to overwrite the existing file. Overwrite the file.

**Verification of Successful
CE Image Update**

15. Apply a power cycle on the device to restart the device.
Do not remove the USB stick during this restart.
After restarting the device, the *Touch Screen Calibration* screen displays.
Calibrate the touch screen. You are forwarded to the Win CE desktop after the calibration is finished.
Remove the memory stick from the device and apply a power cycle again. The device will switch back to normal mode after two automatic restarts.

Setup / Change Windows CE Configuration

1. Perform steps 1 through 5 of the “Initial Steps” section if not already done.

After finishing step 5 with tapping the **Press For Setup Main Menu** button, the *Setup-Main* menu is displayed.

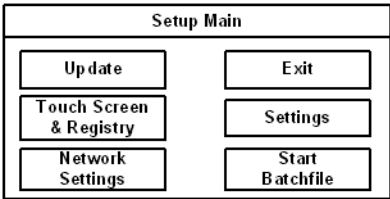
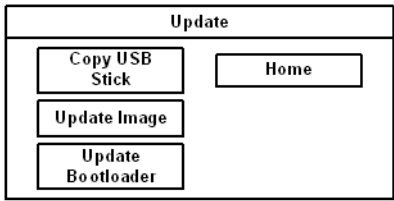


Fig. 132. Setup Main

NOTE: Various settings are password-protected. The password is: „+-+“.

Update

In the subsequent sections, all menu functions are described in detail.



Update Fig. 133. Update

Copy USB-Stick

Copies data from the USB-Stick to the internal Flash file system. Multiple projects can be administered in separate sub directories of the *TSvisRT* directory. If more than one project is located in different sub directories, a selection dialog shows up. In this dialog, only directories which contain a project file (*xxxx.cb*) are displayed. The complete *TSvisRT* directory, respectively the corresponding sub directory and the *AppStarter.exe* file is copied to the *TSvisRT* target directory of the flash file system.

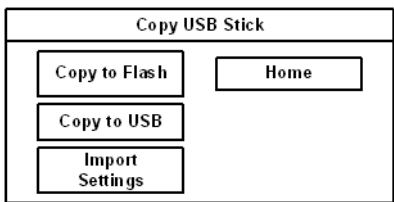


Fig. 134. Copy USB Stick

Update Image

If a file named *xxxx.nb0* is located in the *Image* sub directory on the Memory Stick, the image-update is executed with this file. Only one instance of the *xxxx.nb0* file is allowed in this directory.

During this execution, the Flash Registry is disabled so that the Image will work with a new Default Registry.

You will be informed after the successful update has been finished.

Update Bootloader

If a file named *xxxx.nb0* is located in the *Bootloader* sub directory on the Memory Stick, the bootloader-update is executed with this file.

You will be informed after the successful update has been finished.

Touch Screen & Registry

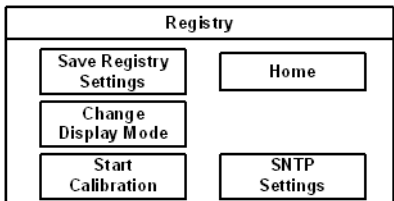


Fig. 135. Registry

Save Registry Settings

The registry is completely saved.

Change Display Mode

Sets the display direction.

LCD Saver sets the brightness to the lowest value if no entries have been made for one hour.

NOTE: This function is password-protected.

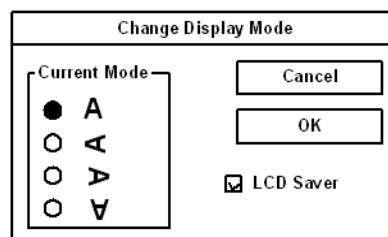


Fig. 136. Change Display Mode

Start Calibration

The calibration of XI882 is started. After the calibration, the values will be saved to the registry automatically.

SNTP Settings

You can enter the name for a time-server located in the Intranet or Internet. Enter the interval for the synchronization in min.

NOTE: This function is password-protected.

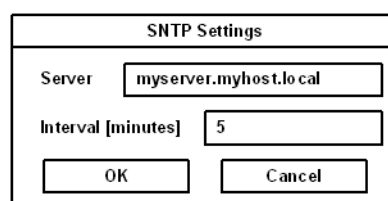


Fig. 137. SNTP Settings

Network Settings

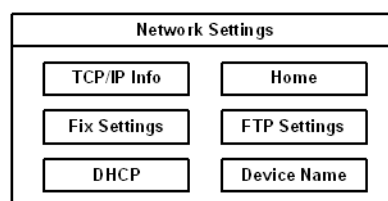


Fig. 138. Network Settings

TCP/IP Info

Displays the following information:

- MAC Address
- IP Address
- Subnet Mask
- Device name
- DHCP-Status
- Gateway
- DNS
- WINS

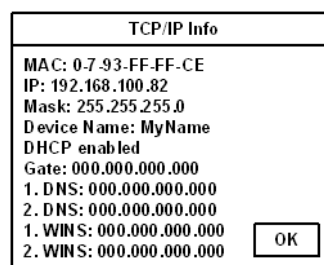


Fig. 139. TCP/IP Info

Fix Settings, IP Address

DHCP is disabled and if an USB-Stick is present, the settings of the *IPSetting.ini* file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

Fig. 140. IP Address

Contents of *IPSetting.ini* file:

```
[IPCONFIG]
IPAddress=172.016.042.150
SubnetMask=255.255.255.000
```

All addresses must apply to the format „xxx.xxx.xxx.xxx“. For numbers smaller than 100, leading zeroes must be added.

Example: 192.168.42.1 -> 192.168.042.001

Fix Settings, Gateway

DHCP is disabled and if an USB-Stick is present, the settings of the *IPSetting.ini* file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

Fig. 141. Gateway

Contents of *IPSetting.ini* file:

```
[IPCONFIG]
Gateway=172.016.042.150
```

All addresses must apply to the format „xxx.xxx.xxx.xxx“. For numbers smaller than 100, leading zeroes must be added.

Example: 192.168.42.1 -> 192.168.042.001

Fix Settings, DNS

DHCP is disabled and if an USB-Stick is present, the settings of the *IPSetting.ini* file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

Fig. 142. DNS

Contents of *IPSetting.ini* file:

```
[IPCONFIG]
PrimaryDNS=172.016.042.150
SecondaryDNS=172.016.042.151
```

All addresses must apply to the format „xxx.xxx.xxx.xxx“.
For numbers smaller than 100 must be added.

Example: 192.168.42.1 -> 192.168.042.001

Fix Settings, WINS

DHCP is disabled and if an USB-Stick is present, the settings of the *IPSetting.ini* file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

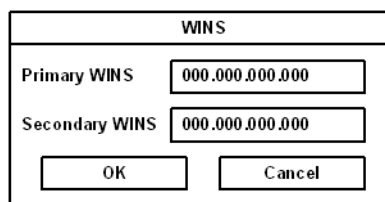


Fig. 143. WINS

Contents of *IPSetting.ini* file:

```
IPCONFIG]
PrimaryWINS=172.016.042.150
SecondaryWINS=172.016.042.151
```

All addresses must apply to the format „xxx.xxx.xxx.xxx“.
For numbers smaller than 100, leading zeroes must be added.

Example: 192.168.42.1 -> 192.168.042.001

DHCP

DHCP is disabled. The setting must be saved via the **Save Registry Settings** command.

NOTE: This function is password-protected.

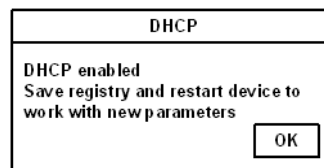
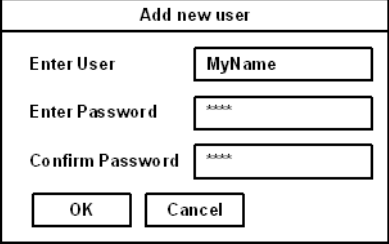


Fig. 144. DHCP

FTP Settings, Add new user

Adds a new user. A password must be assigned to the new user.

After a user name has been created, you cannot access a FTP-Server as 'anonymous'.



The 'Add new user' dialog box has a title bar 'Add new user'. It contains three input fields: 'Enter User' with the text 'MyName', 'Enter Password' with four asterisks, and 'Confirm Password' with four asterisks. At the bottom are 'OK' and 'Cancel' buttons.

Fig. 145. Add new user

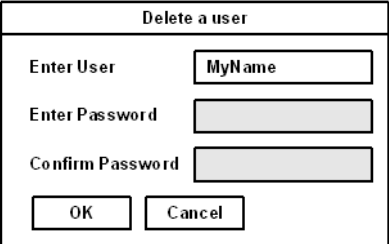
FTP Settings, List all users

All users are listed in a DOS window.

FTP Settings, Delete a user

Deletes a user.

NOTE: This function is password-protected.



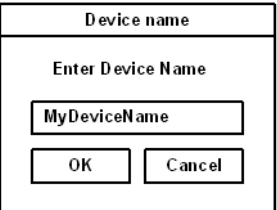
The 'Delete a user' dialog box has a title bar 'Delete a user'. It contains three input fields: 'Enter User' with the text 'MyName', 'Enter Password' (empty), and 'Confirm Password' (empty). At the bottom are 'OK' and 'Cancel' buttons.

Fig. 146. Delete a user

Device Name

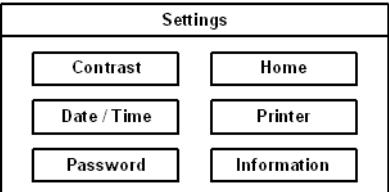
A device name with max. 14 characters kann be created. You can allocate the device via FTP Server by entering the device name instead of the IP address.

NOTE: This function is password-protected.



The 'Device name' dialog box has a title bar 'Device name'. It contains one input field 'Enter Device Name' with the text 'MyDeviceName'. At the bottom are 'OK' and 'Cancel' buttons.

Fig. 147. Device Name

Settings


The 'Settings' dialog box has a title bar 'Settings'. It contains six buttons arranged in a 3x2 grid: 'Contrast', 'Home', 'Date / Time', 'Printer', 'Password', and 'Information'.

Fig. 148. Settings

Contrast

Selects the color depth of TFT-Displays

To ensure a proper display in case of false values, default values for contrast and brightness will be applied for the operating mode Setup Main. If you change a value, you must confirm this in the dialog below.

NOTE: This function is password-protected.

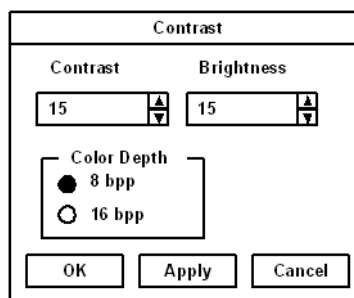


Fig. 149. Contrast

Date / Time

Sets the date, time and time zone.

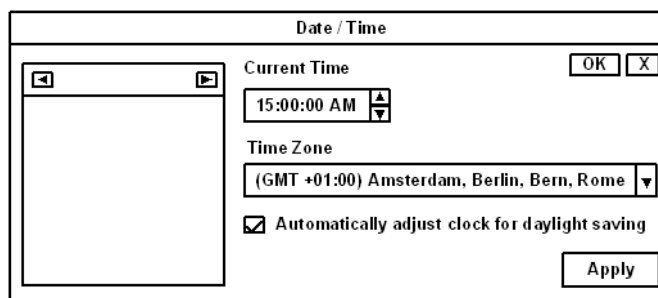


Fig. 150. Date / Time

Password

The password can be enabled, disabled or newly created. If the password is enabled, all password-protected dialogs are accessible per password input only.

NOTE: This function is password-protected.

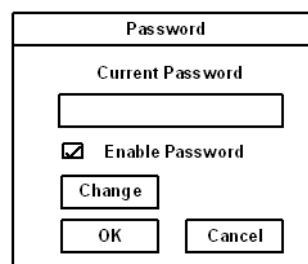


Fig. 151. Password

Printer

Branching to „Page Settings“ and „Network Print“.

NOTE: This function is password-protected.

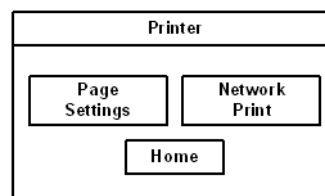


Fig. 152. Printer

Printer, Page Settings

Selects the paper format, either Letter or A4. Defaults to Letter.

The setting is saved in the registry.

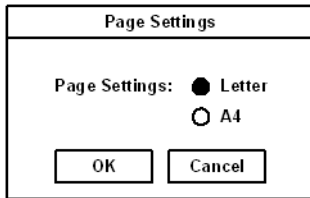


Fig. 153. Page Settings

Printer, Network Print

Inputs of the Network Printer Path.

The setting is saved in the registry.

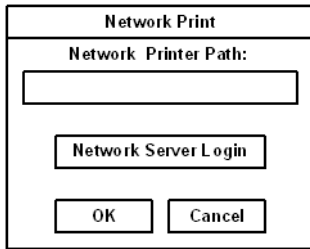


Fig. 154. Network Print

Printer, Network Print, Network Server Login

Defines the network login for the network printing.

Enter User Name, Password and Domain an.

The setting is saved in the registry.

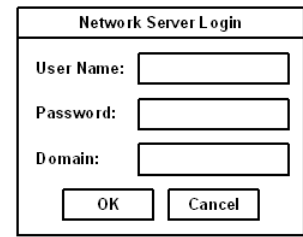


Fig. 155. Network Server Login

Information

Displays the following Information:

- SNR = Serial number (Product-ID)
- Image version
- Built version
- Built date
- Flash size
- SRAM
- PLC / Visu RAM size
- Bus- clockrate

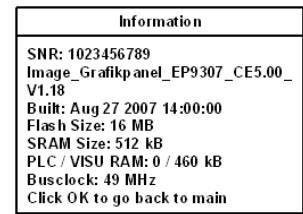


Fig. 156. Information

Start Batch

If present in the *FlashDrv* directory, the *project.bat* file is executed.

Honeywell

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