TREND

Important: Retain these instructions

These instructions shall be used by trained service personnel only. If the equipment is used in a manner not specified by these instructions, the protection provided by the equipment may be impaired.
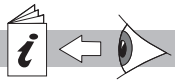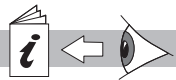
https://partners.trendcontrols.com

CONTENTS

1   BEFORE STARTING CONFIGURATION

Install the IQ5 and any required I/O Modules

IQ5 Installation Instructions - Mounting (TG201482)
IQ5-IO Installation Instructions - Mounting (TG201484)
IQ4/IO/.. Installation Instructions - Mounting (TG201342)
XCITE/IO/.. Installation Instructions - Mounting (TG200627)

Prepare the Ethernet Network(s)

Install DHCP Server
If the IP address settings (IP address, subnet mask, default router, WINS and DNS servers' addresses) are to be supplied by a DHCP server, ensure one is installed on the Ethernet segment to which IQ5 is connected.

Install DNS Server
If email alarms are to be sent, and the email server address is identified by internet domain name, a DNS server must be installed.

Note: IQ5 does not support WINS. If hostnames are to be used, then a DNS server is recommended. For security the use of LLMNR protocol is not advised.

Install IQ®SET on Engineering PC / Laptop

IQSET Manual (TE200147)

Additional Documentation Required

- IQSET Manual (TE200147)
- IP Tool Manual (TE200638)
- IQTool Monitor Applet Manual (TE201298)
- IQTool Addresser Applet Manual (TE201299)
- IQ5 Configuration Manual (TE201486)

Note: PDF copies are included with IQSET installation in the following folder: C:\...\Trend Control Systems\Documentation
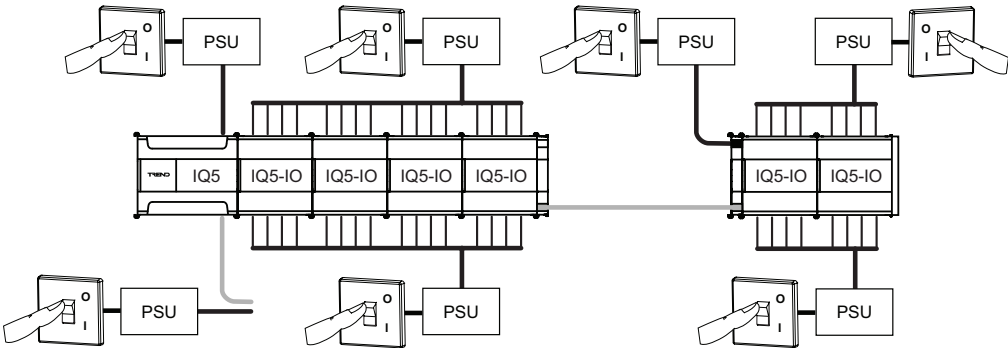
2   CONFIGURATION

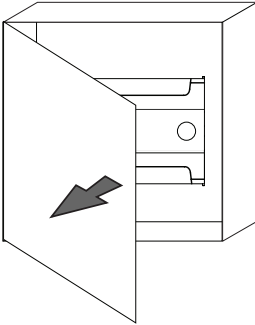**① Isolate All Power** (including any I/O supplies)

⚡ **WARNING** Connecting leads may be connected to power supplies. Isolate <u>before</u> touching.

2   CONFIGURATION (continued)
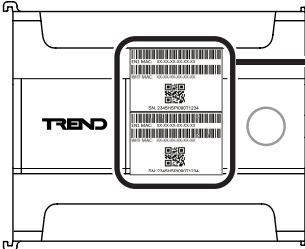
(2)   Open Panel / Enclosure

⚡ **WARNING** Opening the panel may expose dangerous voltages.
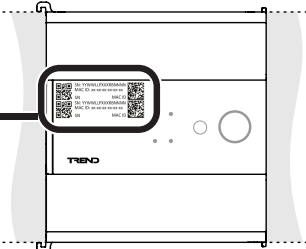
(3)   Peel Off Serial Label(s) and Retain (leave front panel protective film in place)

IQ5

IQ5-IO Modules

(4)   Disconnect All I/O from I/O Modules

⚡ **WARNING** Connecting leads may be connected to power supplies. Isolate <u>before</u> touching.
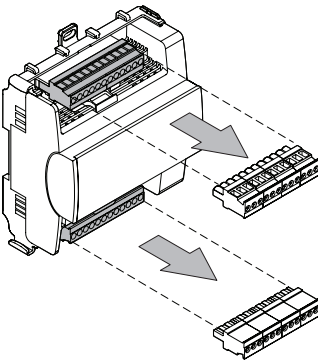
Leave IQ5 Power, Ethernet, RS-485, T1L IO bus, IQ3/4 IO bus and USB connected (where appropriate).

| TREND | IQ5 | IQ5-IO | IQ5-IO | IQ5-IO | IQ5-IO | IQ5-IO | IQ5-IO |
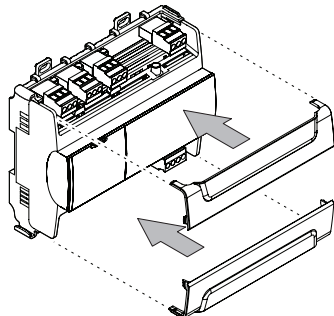
Remove terminal covers

Unplug connectors

Refit terminal covers

2 CONFIGURATION (continued)

5 **Set RS-485 Terminator Switches** (if RS-485 networks are connected)

Terminator in circuit   Terminator out of circuit
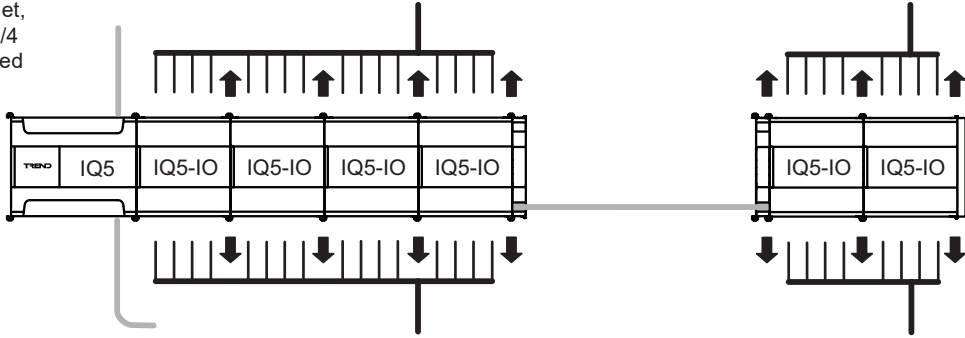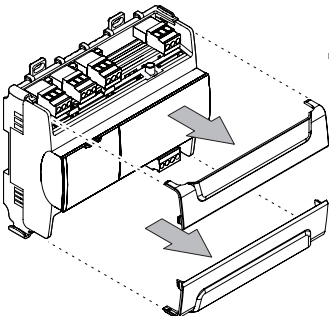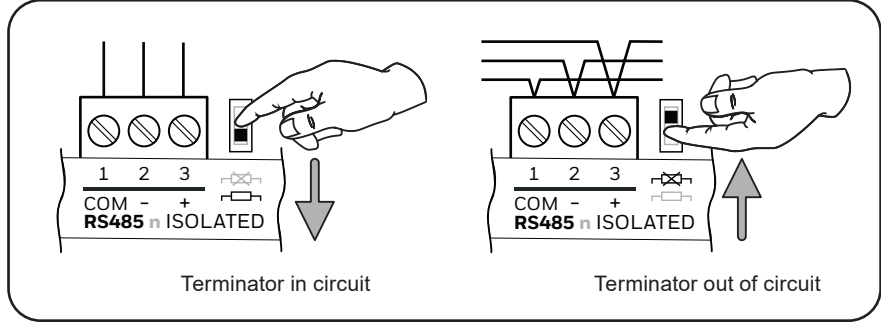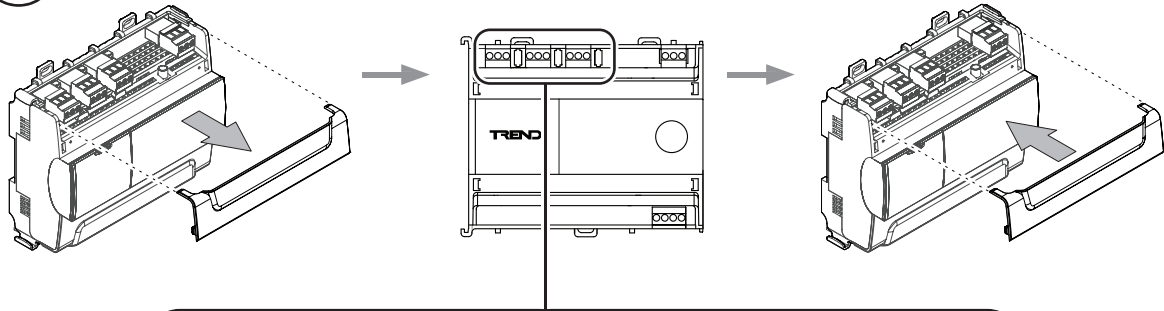
6 **Configure XCITE/IO Modules** (where fitted)

XCITE/IO/.. Installation Instructions - Configuring (TG200627)
Section 2 Only
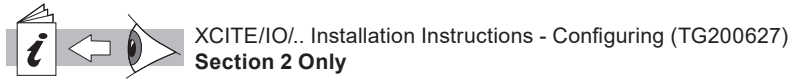
7 **Connect Engineering PC / Laptop** (with IQSET installed)

Either: via Ethernet Hub/Switch

Standard Ethernet cable
(Cat 5e twisted pair)
max 100 m (109 yds)

Ethernet Network

Hub / Switch
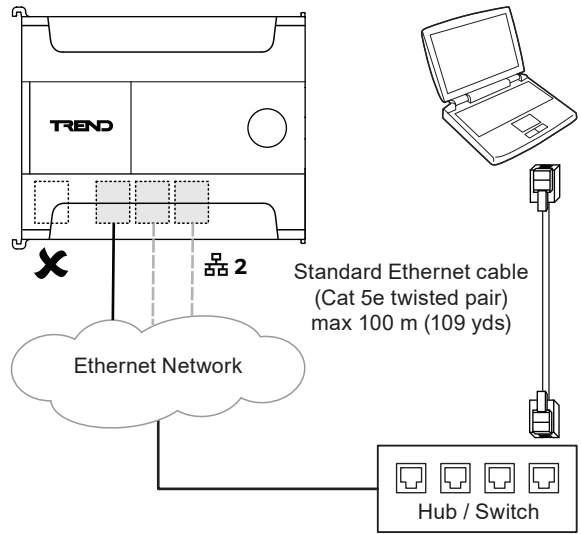
Or: using direct connection

Standard Ethernet cable
(Cat 5e twisted pair)
max 100 m (109 yds)
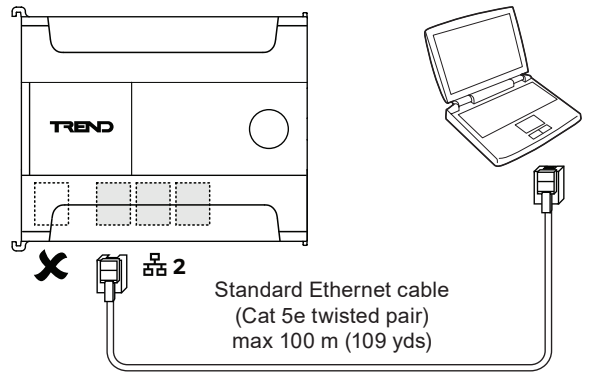
Note: A connection via the USB Local Engineering Port cannot be used at this point.

2   CONFIGURATION (continued)

(8) **Switch On Power to IQ5** (including any additional T1L IO and IQ3/4 Bus PSUs)

(9) **Wait for Controller to Boot Up**

≈30 s   ≈45 s

Go to step 10
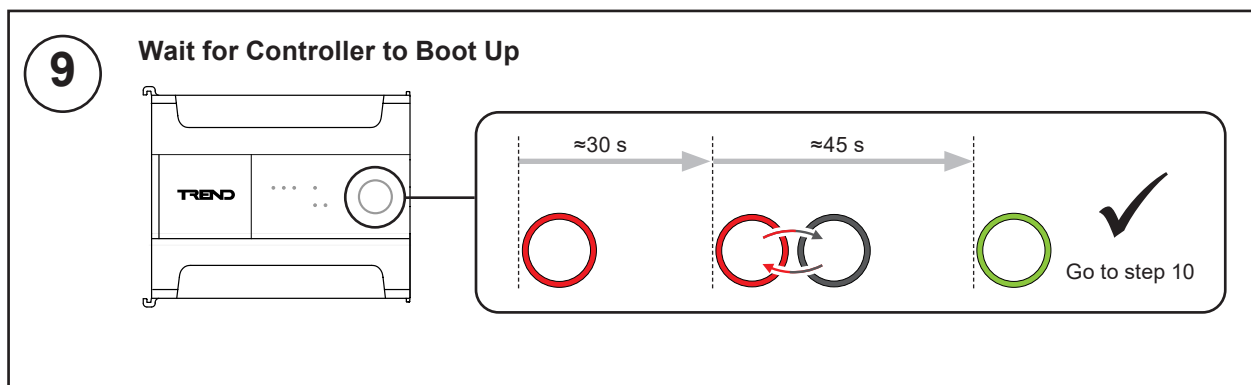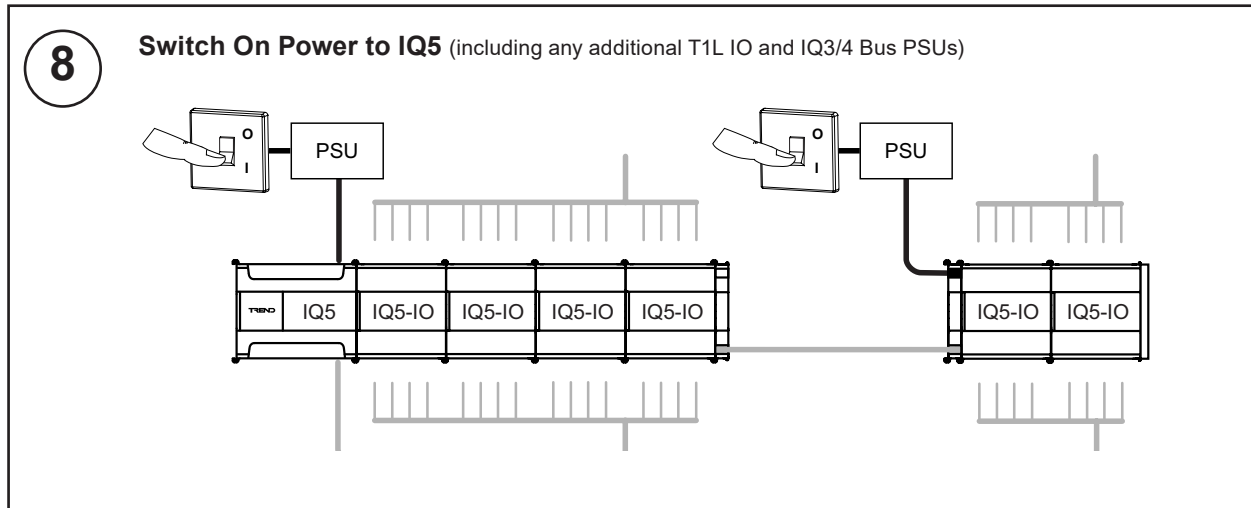
(10) **Check IQ5 Status Indicator**

Expected indications	
🟢	Controller is running OK. Proceed to step 11.
🟡⚫	One or more modules on the T1L bus or IQ3/4 IO bus is not yet addressed correctly. This can be ignored at this stage - proceed to step 11.

Fault indications	
🔴	Displayed for longer than 60 seconds. The controller boot up process has encountered a problem. Try resetting the IQ5 to default settings (see page 19).
⚫	No power - check input power supply

2   CONFIGURATION (continued)

11 **Set Display Language on IQ5-IO HOA Modules** (if required)

On initial power up only:
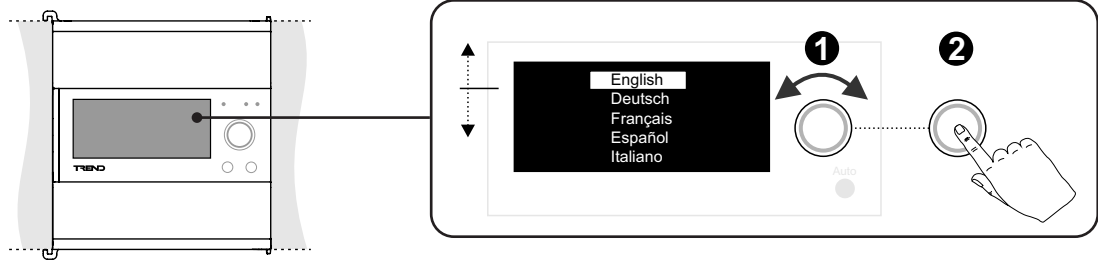
Note: To change the language after initial setup, reset the module by following the procedure in section 7 on page 20.

12 **Check Status of T1L IO Bus** (only if IQ5-IO modules are connected)

IQ5
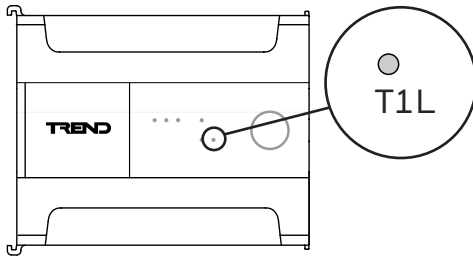
Normal operation indication	
🟢	Bus is connected and working correctly.
⚫	Bus is not connected (no T1L modules).

Fault indication	
🔴	Bus is connected but not working correctly. Check the bus wiring and that all IO modules are powered ON.

IQ5-IO Modules
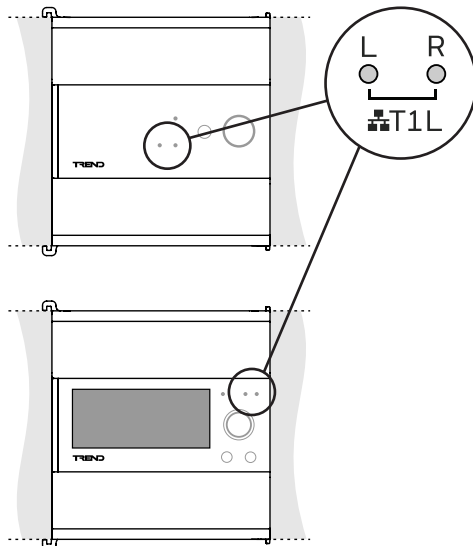
Normal operation indication			
L 🟢	R 🟢	Bus is active on both sides of the module	
L 🟢	R 🔴	Bus is active on **left** side only	Valid for the last module on the bus.
L 🔴	R 🟢	Bus is active on **right** side only	For all others, check wiring on the side that is unlit.

Fault indication		
L 🔴	R 🔴	No valid T1L connection. Check the bus wiring.

2   CONFIGURATION (continued)

---

13   **Check Ethernet Indicators** (for any connected ports)

Normal operation indication	
	1000 Mbps link detected
	100 Mbps link detected
	10 Mbps link detected

Note: The indicator will flash when data is being transmitted or received.

---

14   **Connect to IQ5 using IP Tool**

Using the PC/laptop (see step 7) run IQSET / IP Tool

IQSET Manual (TE200147)
IP Tool Manual (TE200638)

Then find the IQ5 by its MAC address, as shown on the serial label

EN1 MAC: XX-XX-XX-XX-XX-XX

WIFI MAC: XX-XX-XX-XX-XX-XX

SN: 2345HSPI090T1234

---

2   CONFIGURATION (continued)

(15)   **Set up IP Addressing Details**

With the IQ5 selected in the IPTool devices list, check the following parameters and set as required.
IMPORTANT: The Network Key, lan and node parameters MUST be set.

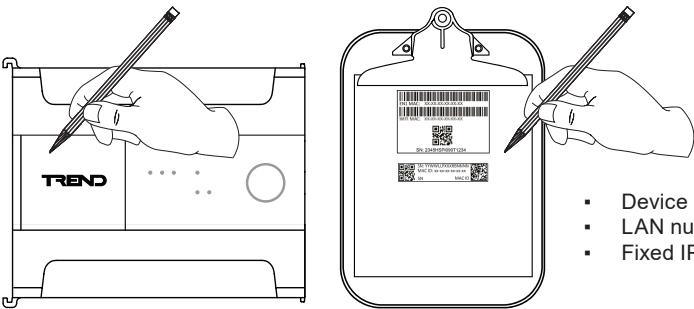| Parameter	Setting / Value	Further Details
Network Mode - Networked*	☑ = build Trend network with other devices (default) ☐ = operate in standalone mode	In standalone mode the IQ5 will not build a LAN or internetwork with other devices.
Network Mode - Auto-ip-DHCP*	☑ = dynamic IP DHCP (default) ☐ = static IP addressing	If set to DHCP mode but no DHCP server is found, the IQ5 will operate in link/local mode where it auto negotiates its IP address with other devices on its Ethernet segment. *Note: It is recommended that link/local only be used on a single segment system.*
IP Address*, Subnet Mask*, Default Router*	If static IP addressing is selected enter the required values in the format: xxx.xxx.xxx.xxx	WINS is not supported by IQ5. If hostnames are to be used, then a DNS server is recommended. The use of LLMNR protocol is not advised.
Hostname	Default is 'Trend-' plus the last three octets from the MAC address. Change if required.	The hostname may comprise upper or lowercase characters A to Z, digits 0 to 9, underscore or hyphen, with no spaces.
UDP	Default is 57612. If required, this can be changed to a value from 49152 to 65535.	**All IQ5 controllers that are required to be part of the same Trend network must have the same udp port number and the same network key.** Multiple Trend networks can exist on the same physical network, in which case each separate Trend network will require a different network key.
Network Key	Enter a suitable key comprising at least 10 alphanumeric characters (no spaces). **Do not forget the Network Key!**	**HINT:** *For consistency, type the network key into a text editor (e.g. Notepad), then copy and paste it for each device.*
virtual CNCs*	Click Auto Number vCNCs or double-click on a vCNC in the virtual CNCs list and enter the following: **node** - the vCNC address 1, 4 to 9, 11 to 119 (0 = vCNC disabled) **port** - the vCNC port number 1 to 32767 *Note: If Use Default Port is checked the port number will be set to 10000 plus the node address (e.g. node 23 = port 10023).*	The IQ5 has four vCNCs (or eight when licenced as an NC device). All vCNCs are all disabled by default. At least one vCNC must be enabled to allow a supervisor, tool or local display to make a connection to the Trend system. For most systems it is recommended to have vCNCs on at least two separate devices on each LAN in order to provide continuity of communications (if one device is offline) and to provide load sharing during intensive data transfer operations (e.g. when downloading plot data).
LAN*	Enter the required local LAN number: 1, 4 to 9, 11 to 119 *Note: This **must** be the same for all devices required to form a LAN.*	IQ5 controllers are given a default device address of 119 and LAN number of 20 in the factory.
OS*	Enter the required device address: 1, 4 to 9, 11 to 119 *Note: This **must** be unique on a LAN.*	
Identifier	Enter a name that identifies the controller within the system.	To avoid potential confusion, it is generally recommended that this is made the same as the hostname.

Click the **WRITE DATA** button to save the new settings.

*Note: If parameters indicated * above are changed the IQ5 will reboot when the new values are saved.*

> **STOP!**
> **It is recommended that you complete the above setup for <u>all</u> IQ5 controllers in the Trend network before proceeding.**
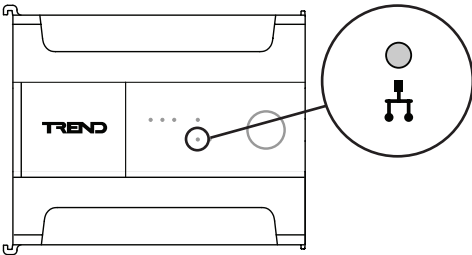
2   CONFIGURATION (continued)

16   Record the Address Details of the Controller

- Device address (O/S)
- LAN number
- Fixed IP Address or Hostname (if DCHP)

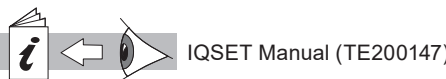### 17   Check LAN OK Indicator (not applicable if being used in NC Mode)

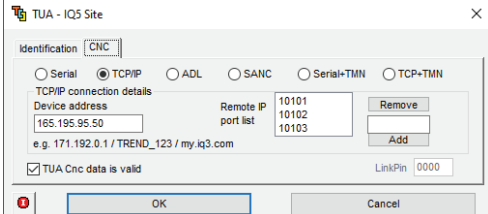| Normal operation indication	
🟢	LAN built OK with at least one other device.
🔄	Attempting to build a LAN with other devices that have the same LAN number and Network Key. This may take several minutes.
●	Controller set to standalone mode and will not build a LAN with other devices.

Fault indication	
🔄	If this continues to show for more than a few minutes this indicates that the controller has not found any other devices on the same LAN. Use IPTool to check device settings.

---

18   Connect to the Trend Network using IQSET
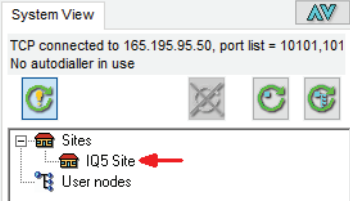
Using the Engineering PC/Laptop (see step 7) run IQSET and make a connection to the Trend Network (or Site). For example:

 IQSET Manual (TE200147)

- Open a new site (e.g. File > Open/New Project > Live Site).

- In the IQSET **System View** panel right-click on **Sites** and select **New Site**.

- Select Trend as the network type and click **OK**.

- Enter a **Site name** and click **Edit site details**. The Connection Wizard will appear.

- Select **Launching TUA Editor** and click **Next**. The TUA editor will appear. Select the **CNC** tab:

- Select **TCP/IP**, enter the **IP Address** (or hostname) of an IQ5 and add at least one valid vCNC port in the **Remote IP port list**.
Note: If using a hostname and DNS or LLMNR is not supported on the network, add '.local' to the hostname and ensure that IQSET is connected to the same segment.

- Click **OK** twice.

- In the **System View** panel, double-click the site name in the **Sites** tree:

If the IQ5 (to which you are connecting) already has a System Account set up, then you will now be asked to login using the appropriate credentials - go to step 20 on page 9.

Otherwise, you will be prompted to press the controller's service button to validate the connection - go to step 19.

2   CONFIGURATION (continued)

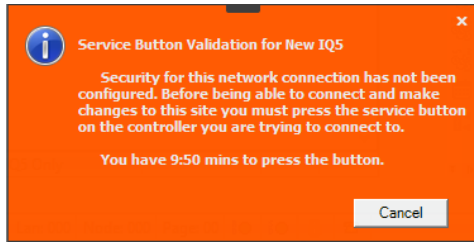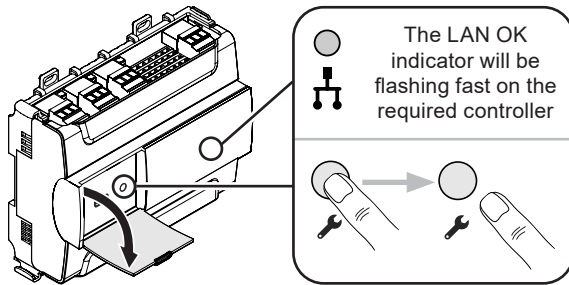
(19)   **Validate the Connection to IQ5 and Create System Accounts**

If you attempt connection to an IQ5 that has no system accounts setup, then IQSET will display:

- Press the service button 🔧 on the controller within the specified time limit:

The LAN OK indicator will be flashing fast on the required controller

- IQSET will now display a dialogue box for you to enter an **Account Name**, **Password** and **Email** address for the Admin system account.

  Note: The email address is required in order to recover from a forgotten password.

- Click ✔ to create the account.

- You will then be given the option to create a single Engineer system account - click **Yes** or **No** as required.

The new system account(s) will now be set up on the controller and synchronised with all other IQ5 controllers on the same Trend network, i.e. any IQ5 controller that has:

- the same Network Key and UDP Port set up, and
- no pre-existing system accounts.

This will take a few seconds to complete, after which time IQSET will display a login box - go to step 20 on page 9.

Note: To add further system accounts go to the System View in IQSET, right-click the site, select System Account Manager and follow the instructions in the IQSET Manual.

 IQSET Manual (TE200147)

Remember to provide the credentials of the Admin system account plus the Network Key to the site owner to enable them to manage the system accounts. If the site owner does not have access to IQSET you may need to add another Admin system account for each system integrator working on the site.

---

(20)   **Login to the Trend Network**

If you attempt connection to an IQ5 that has system accounts setup, then IQSET will display:
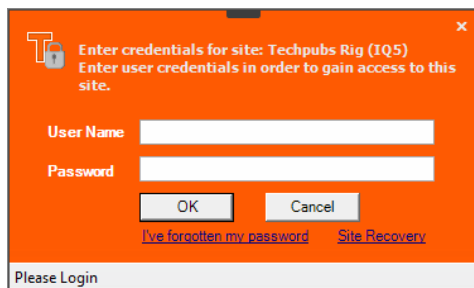
- Enter the **User Name** and **Password** for a valid Admin or Engineer system account.

- Click **OK**.

- In the **System View** panel click the site name to refresh the site details (or right-click and select **Refresh**).

---

2   CONFIGURATION (continued)

---

(21)   **Create Strategy in IQSET**

Create an IQSET project and create a strategy for each IQ5 controller.

i ⇐ 👁   IQSET Manual (TE200147)
IQ5 Configuration Manual (TE201486)
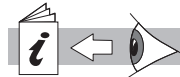

- In IQSET click **File** > **Open / New Project**.

- Select **Create New SET Project** and click **OK**.

- Enter the required details and click **OK**.

- In the **Project View** panel add the required LANs by right-clicking the project name and selecting **Insert Lan**.

- Enter the required **LAN Number** and **Label**, and click **OK**.

  Note: The LAN number should match the LAN(s) defined using IPTool in step 15.

- Add the required IQ5 controllers by right-clicking a LAN and selecting **Insert Device** > **IQ Controller**. The **Controller Selection** dialogue appears:
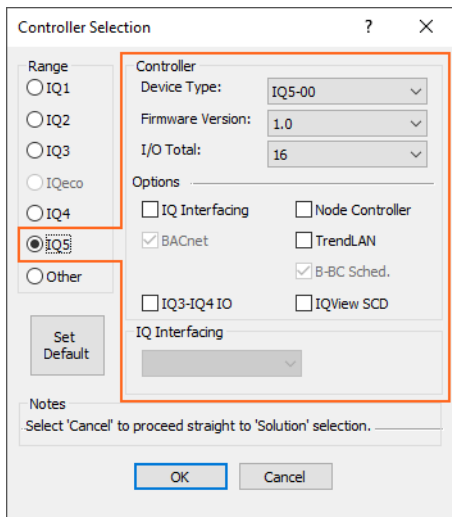
- Select **IQ5** and select the required number of I/O points (**I/O Total**) and licensable features (**Options**) and click **OK**.

- In the **Device Details** dialogue enter the controller **Address** and **Name**, and click **OK**.

  Note: The Address should match the node(s) defined using IPTool in step 15.

- In the **Address Module** dialogue enter any required settings and click **OK**.

- In the **Sensor Type** dialogue enter any required settings and click **Exit**.

Set up IO Modules (if installed)

- Right-click in the empty strategy page and select **Device** > **I/O Setup**.

- In the **I/O Setup** dialogue add and configure any IO Modules as required by following the instructions in the IQSET Manual.

Configure Remaining Strategy (as required)

- Create the remainder of the strategy by following the instructions in the IQSET Manual and IQ5 Configuration Manual.

Local User Modules

It is not necessary to create local User Modules for the IQ5, unless these are required to control end users access to the web interface or the IQVIEW SCD (single controller display). All engineering access is controlled by the system accounts created in step 19.

---

(22)   **Set up IQ5 Feature Licencing**

If any licensable features are required (e.g. additional IO points, NC or INT functionality) these must now be enabled.
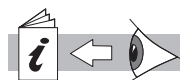
i ⇐ 👁   See 'Licence IQ5 Features' in the IQSET Manual (TE200147)

- With IQSET connected (see step 18) and logged in (see step 20), go to **System View**.

- Right-click the site name in the **Sites** tree and select **IQ5 Feature Licensor**.

- Select the device(s) required and click 🗋 to generate a Licence Request File and save it on the PC.

- Login to the HBT Licensing Portal:

      https://MyBuildings.honeywell.com

- Select Quick Cart and upload the License Request File.

- Add any additional details including the email address of the person requiring the licence, then checkout the order.

After the order has been processed an email will be sent to the specified email address. You will then need to...

- Download the Licence File from the Portal and save it.

- Using the IQ5 Feature Licensor click 📂 to import the Licence File.

- Select which device(s) to update.

- Click 📥 to update the device licences.

Note: If you are not connected to the same IQ5 vCNC that was used when creating the Licence Request File a warning will be displayed. If you are connected to the same site you can ignore the warning. If you are not connected to the same site connect using a different connection.
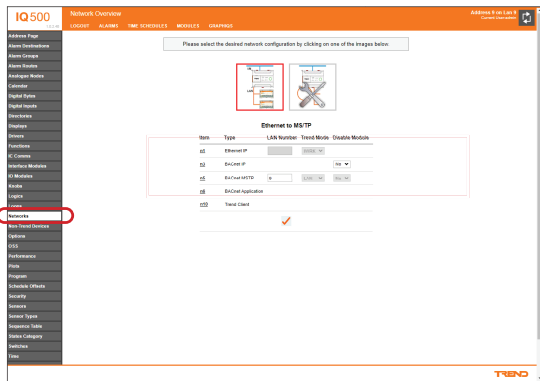
---

2 CONFIGURATION (continued)

---

(23) **Set up NC Communication Mode** (if the IQ5 is required to operate as node controller)

Note: The IQ5 must be licenced for NC mode.

▪ Using the Engineering PC/Laptop (see step 7) open a compatible web browser and access the IQ5 web interface using its IP Address or Hostname.

▪ If prompted, login using valid system account credentials.

▪ Select **Modules > Networks** to display the **NC Configuration Wizard**.

▪ Click required mode icon (see table), and if necessary specify any parameters, e.g. LAN number.

Note: If no icons appear, check that the IQ5 is configured <u>and</u> licensed for NC operation (see step 21 & 22).

▪ Click ✔ ; the controller will now reboot.

▪ Set the communications channel on the MS/TP network module to the port the MS/TP network is connected to.

Mode Icon	Parameter Settings	
	Ethernet Internetwork to to MS/TP LAN (default)	
	Parameter	**Setting**
	BACNet MSTP LAN number	1, 4 to 9, 11 to 119
	BACnet IP Disable Module	No = Enabled Yes = Disabled
	Manual configuration of all paramters (not recommended)	

Note: In NC mode the IQ5 always has a LAN to connection to the internetwork and so cannot join another LAN on the internetwork.

---

(24) **Configure or Disable the Web Server** (if required)

The IQ5's web server enables users to access the web interface for viewing/changing module parameters (including setting up NC mode - see step 23) or interacting with optional GraphIQ pages via a web browser.

Connection to the IQ5's web server can be made via HTTP and/or HTTPS protocol and both these ports are enabled by default.

Note: Where HTTPS is used it will be necessary to configure SSL certificates (see the IQ5 Configuration Manual).

If access to the web interface is not required it is recommended that both ports are disabled for security. For example:

▪ Using the Engineering PC/Laptop (see step 7) open a compatible web browser and access the IQ5 web interface using its IP Address or Hostname.

▪ If prompted, login using valid system account credentials.

▪ Select **Modules > Networks**.

▪ Select **n1** (Ethernet IP).

▪ Set the **Web Server Port Number** and/or **Secure Web Server Port Number** parameters to 0 to disable the port.

▪ Click ✔ .

  IQ5 Configuration Manual (TE201486)
IQSET Manual (TE200147)

---

2   CONFIGURATION (continued)

---

25   **Download Strategy to IQ5 Controller**

Use IQSET to download the strategy to the controller(s).

i ⟵ 👁   IQSET Manual (TE200147)

For a single controller...
▪ Select the appropriate controller/strategy in the **Project View**.

▪ From the **Strategy** menu select **Create Data File**.

▪ In the **System View** select the appropriate controller.

▪ Right-click the controller and select **Send File to Device**.

▪ In the **File Download** dialogue box check that the correct file is selected the in **Transfer Directory** field.

▪ Click 🔽 to start the download.

For other methods or for downloading to multiple contollers please refer to the IQSET Manual

IMPORTANT: The controller's date and time MUST be set correctly to ensure that the controller's security certificates can be correctly validated. Communications issues will occur if the security certificates are not valid. This can be done by selecting the option to set the controller's time is selected when downloading the strategy.

Note: If the strategy uses an NTP server to set the IQ5's time and date, synchronisation will only occur if the IQ5's time and the server's time are within 49 days of each other.

Note: The controller's date and time may be set up from a controller configured as timemaster.

---

26   **Check RS-485 Network Indicators** (if RS-485 devices are connected)
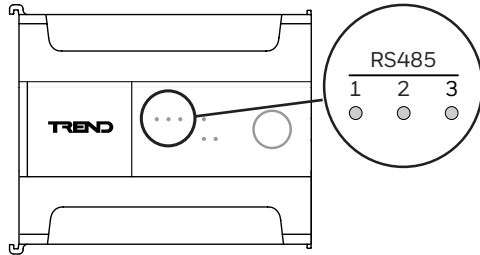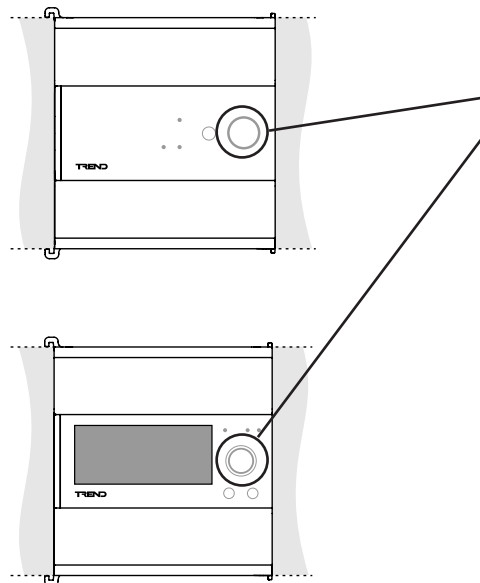

Normal operation indication	
🟢	Port configured OK and communications are good.
⚫	Port not active. No Network module exists in the controller strategy or is not configured correctly.

Fault indication	
🔴	No communications or no network connected.

Note: A controller configured for NC operation will show 🔴 on port 1 until BACnet devices are connected.

---

27   **Check Status Indicator of T1L IO Bus Modules** (if connected)

Normal operation indication	
🟢	Module operational and address set OK. If all modules are in this state, go to step 29 on page 14.
🟡	Module is booting up - please wait a few minutes and check again.

Fault indication	
🔴🟡	Module not addressed correctly - go to step 28 on page 13.
🔴⚫	
🟢	HOA module not addressed correctly - go to step 28 on page 13. *Note: Rotary control has been operated.*
⚫	Module not powered - check connection from previous module or separate PSU (if applicable)

---

2   CONFIGURATION (continued)

(28) Setting the Address of a Module

The IQ5 controller will automatically attempt to match each physical I/O module with its corresponding strategy I/O module and set its address accordingly.

However, the controller will be unable to set the address of a module if:

▪ there is more than one unaddressed physical module of the same type,
▪ there is more than one unaddressed strategy module of the same type, or
▪ there is no corresponding I/O module in the strategy.

Should any of the above situations arise it will be necessary to set the address of any affected module using either of the following methods.

Method 1: Use the IQ Tool Soft Addresser Applet in IQ®SET.

IQ Tool Soft Addresser Applet Manual (TE201356)
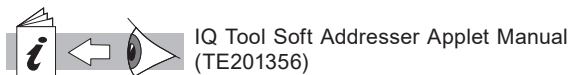
▪ Use the applet to assign the physical I/O module to the appropriate strategy I/O module.

Method 2: Use the controller web interface.

IQ5 User Guide (TE201490)

▪ Login to the controller's web interface.
▪ Access the I/O Module page and enter module addresses as required.

Note: If a module is not visible in either the applet or the web interface, it may be because it has already be used with another controller. A module becomes bound to the first controller it connects to over the T1L bus. If connecting the module to a different controller it will need to be reset as shown in section 7 on page 20.

Identifying a Module using the 'Wink' Function (if required)

To help indentify a specific module it can be placed in 'wink' mode, either from the module itself or set up tool. While in wink mode the module's service indicator 🔧|⚠ will flash and the status indicator ring of the corresponding controller will also flash green.

Method 1: Use the module's service button..

▪ Press the module's service button 🔧 briefly (<3 seconds).
▪ The module's service indicator 🔧|⚠ will flash for approximately 2 minutes, showing that the device is in wink mode.
▪ Open either the IQ Tool Soft Addresser Applet or the controller's web interface (see Method 2 and 3).
▪ Any module in wink mode will have its **Wink** parameter set to 'On'.

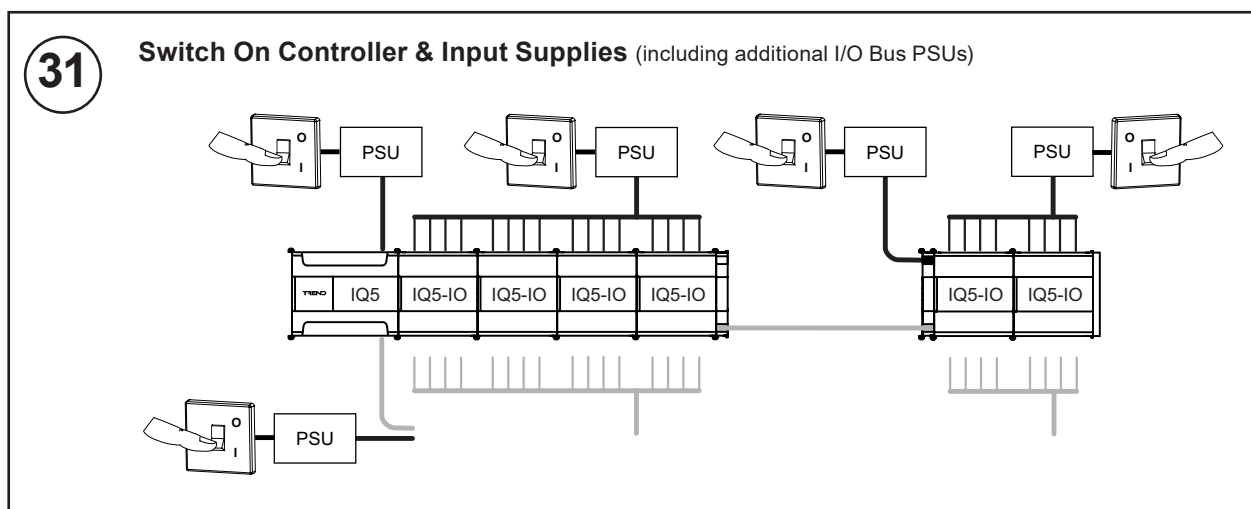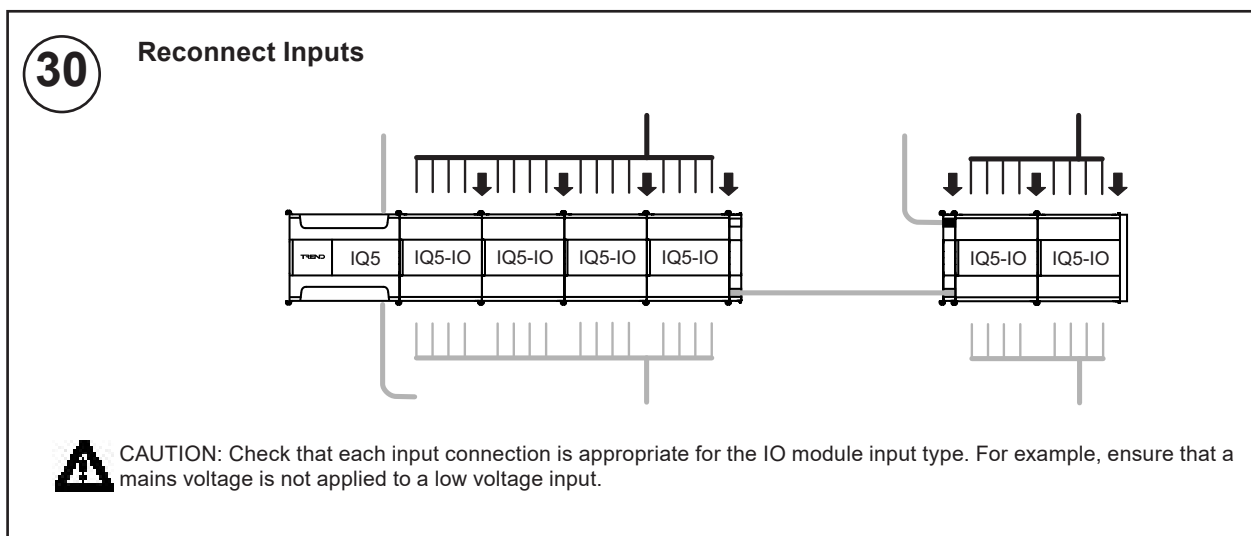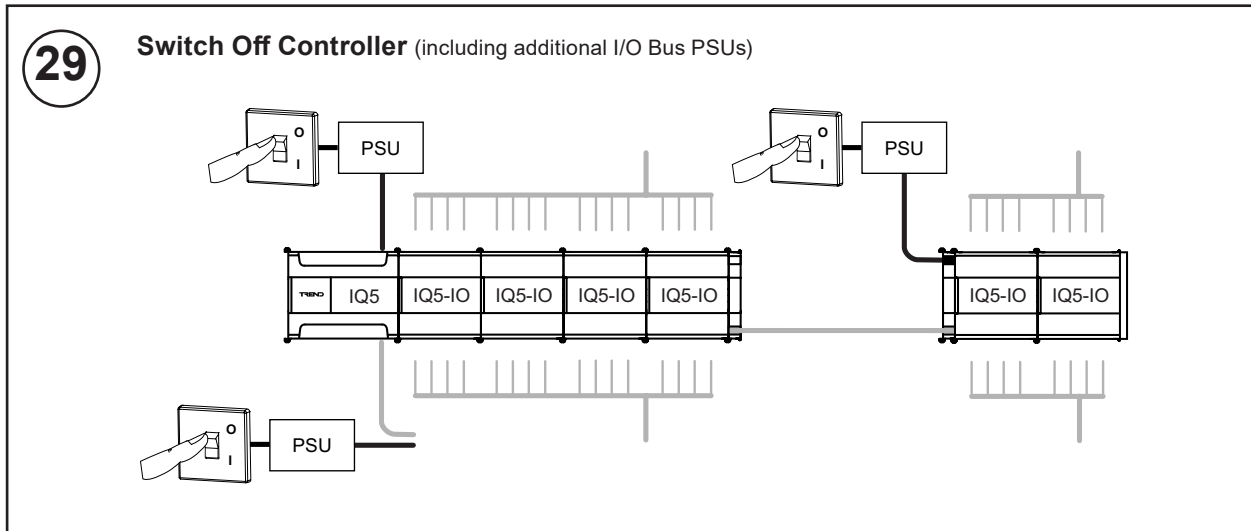**Method 2:** Use the IQ Tool Soft Addresser Applet in IQ®SET.

IQ Tool Soft Addresser Applet Manual (TE201356)
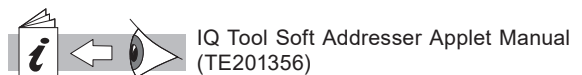
▪ Click the [ ] button for the appropriate module.
▪ The button background will flash green and the module's service indicator 🔧|⚠ will flash, showing that the device is in wink mode.
▪ Click the button again to turn off wink mode.

Method 3: Use the controller web interface.

IQ5 User Guide (TE201490)

▪ Login to the controller's web interface.
▪ Access the **I/O Module** page.
▪ In the **Wink** column set the parameter to 'On' for the appropriate module.
▪ The module's service indicator 🔧|⚠ will flash, showing that the device is in wink mode. It will continue to flash until the corresponding **Wink** parameter is set back to 'Off'.

2   CONFIGURATION (continued)

(29) Switch Off Controller (including additional I/O Bus PSUs)

(30) Reconnect Inputs

⚠ CAUTION: Check that each input connection is appropriate for the IO module input type. For example, ensure that a mains voltage is not applied to a low voltage input.

(31) Switch On Controller & Input Supplies (including additional I/O Bus PSUs)

2 CONFIGURATION (continued)

33 **Check Input Operation**

IQ5-IO Modules

Analogue (S)

Digital

Channel Indicator

IQ4/IO Modules

i ← IQ4/IO/.. Installation Instructions - Configuring (TG201161)
Section 4 Only

XCITE/IO Modules

i ← XCITE/IO/.. Installation Instructions - Configuring (TG200627)
Section 4 Only

34 **Switch Off Controller & Input Supplies** (including additional I/O Bus PSUs)

PSU   PSU   PSU   PSU

TREND | IQ5 | IQ5-IO | IQ5-IO | IQ5-IO | IQ5-IO   IQ5-IO | IQ5-IO

PSU

35 **Reconnect Outputs**

TREND | IQ5 | IQ5-IO | IQ5-IO | IQ5-IO | IQ5-IO   IQ5-IO | IQ5-IO

⚠ CAUTION: Check that each output connection is appropriate for the IO module output type. For example, ensure that a mains voltage is not applied to a low voltage output.

2   CONFIGURATION (continued)

36   **Switch On Controller, Input & Output Supplies** (including additional I/O Bus PSUs)

37   **Check Output Operation**

IQ5-IO Modules

Analogue

Channel Indicator

LOAD

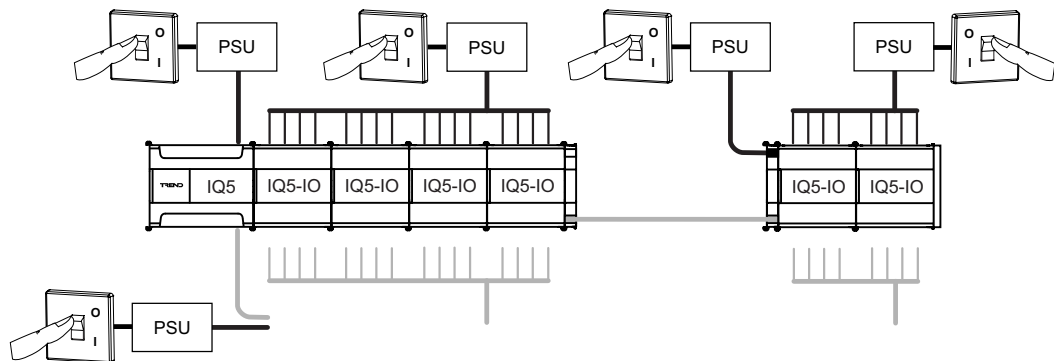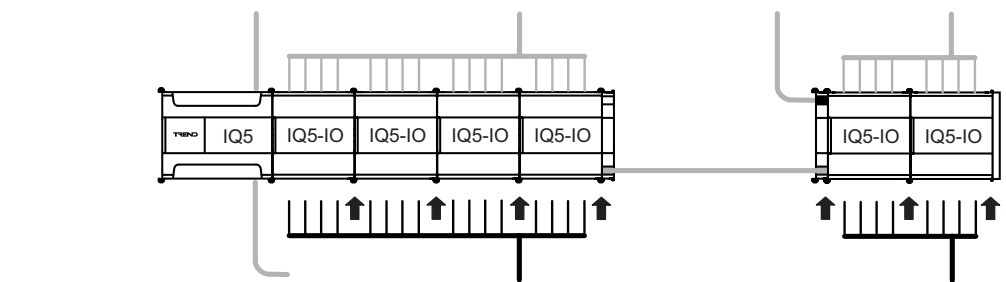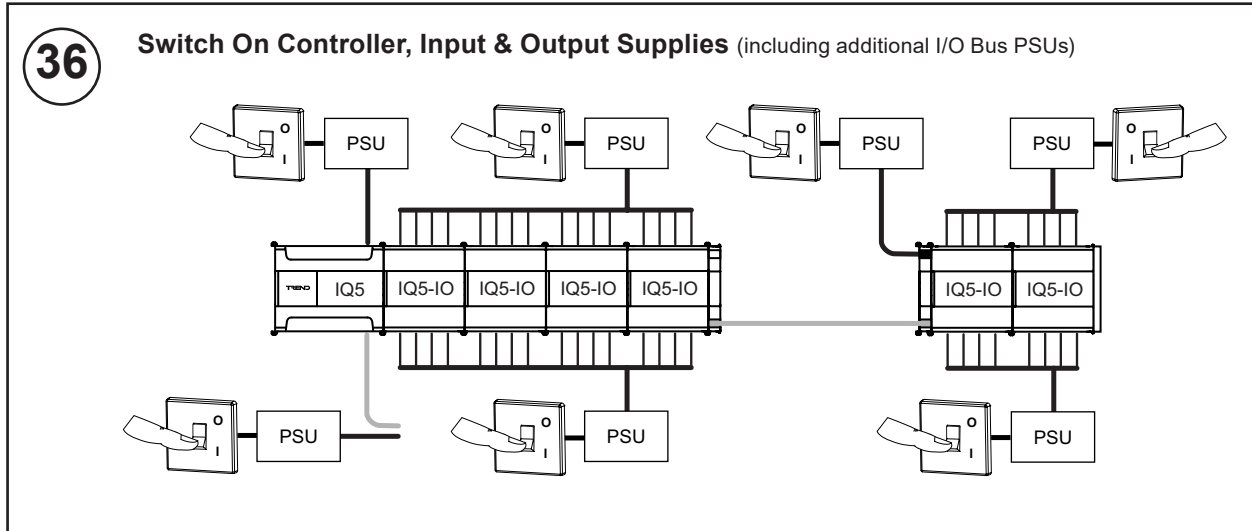Digital

Channel Indicator

LOAD

IQ4/IO Modules

 IQ4/IO/.. Installation Instructions - Configuring (TG201161)
Section 4 Only

XCITE/IO Modules

 XCITE/IO/.. Installation Instructions - Configuring (TG200627)
Section 4 Only

38   **Backup Strategy**

 IQSET Manual (TE200147)

Once the system is working as expected, it is good practice to upload the strategy from each controller into IQSET to create a backup.

If required, you can also compare this uploaded strategy with that held in your project and check for any differences.

2   CONFIGURATION (continued)

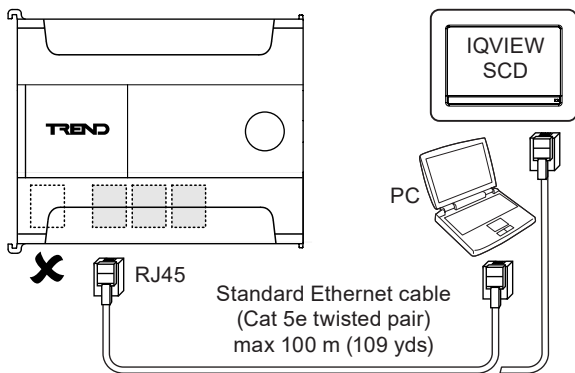**(31)** **Install Supervisors or Displays** (if required)
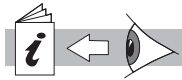
If a supervisor or local display is required, install these now following the appropriate installation instructions and the guidance notes below. Otherwise go to step 32 on page 18.
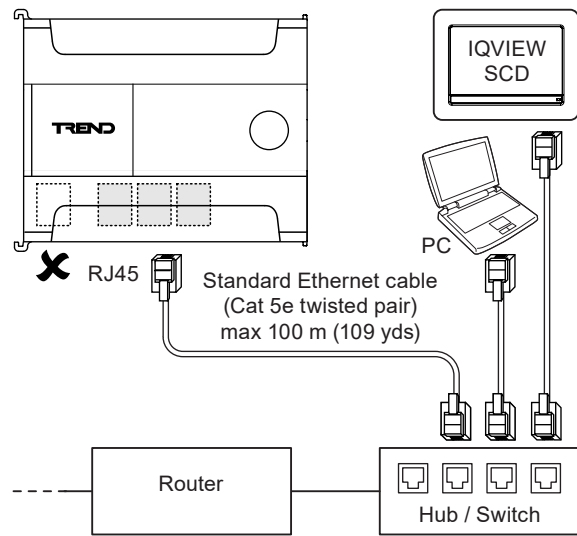
Connection Method	Suitable for			
	IP Tool	IQSET	Supervisor (e.g. IQVISION)	Web Interface (e.g. IQVIEW SCD for IQ5)
Direct via Ethernet Port	✓	✓*	✓*	✓
Via Ethernet Network	✓	✓*	✓*	✓
Direct via USB Engineering Port	✗	✓	✗	✗

* connection requires a vCNC to be configured on the target controller.

Direct Connection via Ethernet Port

PC

IQVIEW SCD

RJ45

Standard Ethernet cable
(Cat 5e twisted pair)
max 100 m (109 yds)

Connection via Ethernet Network

PC

IQVIEW SCD

RJ45

Standard Ethernet cable
(Cat 5e twisted pair)
max 100 m (109 yds)

Router

Hub / Switch

- To make a connection with IQSET or supervisor ensure that a vCNC is available in a Trend device on the same Ethernet Trend network and connect to the vCNC as described in the supplied documentation.

  Note: If connecting with IP Tool, the PC should be on the same Ethernet segment as the IQ5.

- To make a connection with a web browser run the web browser on the PC and access the IQ5's IP address or host name.

- To make a connection with an IQVIEW SCD, install the IQVIEW SCD application on the controller, then configure the display device with the URL of the IQ5 controller. For full details see IQVIEW Single Controller Display for IQ5 Manual (TE201504).
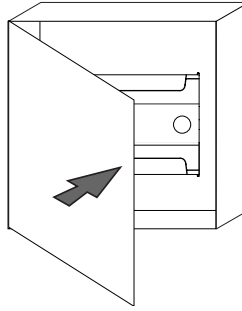
Direct Connection via USB Engineering Port

PC
(with IQSET)

USB type C
connector
(behind flap)

USB cable
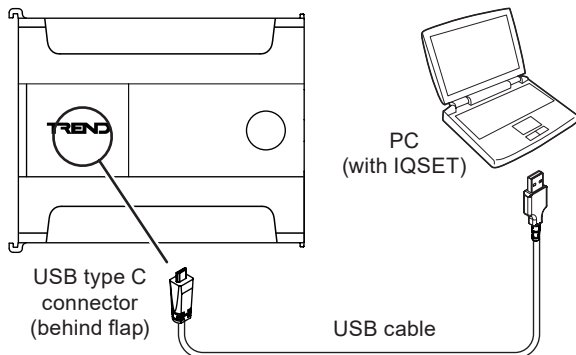
This method is only suitable for a temporary connection with IQSET during system commissioning or fault finding.

2   CONFIGURATION (continued)

(32) Close Panel / Enclosure

The configuration procedure is now complete!

3   RESET IQ5 CONTROLLER TO FACTORY DEFAULTS

A factory reset will erase the strategy and reboot the controller into its default configuration.

(1) Isolate Power and Disconnect All I/O

Follow steps 1, 2, 4, 8 and 9 (on pages 1 to 4) to:

- Isolate Power,
- Open Panel,
- Disconnect All I/O,
- Unplug all Ethernet cables. Any RS-485 networks may be left connected,
- Switch on power to IQ5 only,
- Wait for controller to settle.

(2) Perform the Reset

Press and hold down the service button 🔧 (located behind the drop down flap) until the ring indicator flashes yellow, then release the button. To initiate the reset press the button again while the indicator is still flashing.
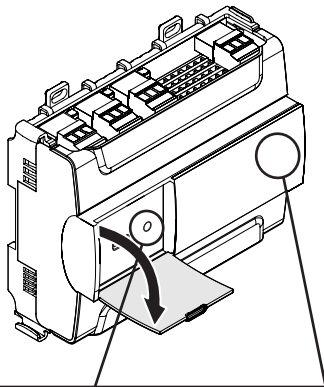
The reset process may take up to several minutes depending on the controller type. <u>Do not remove power to the controller until the process has completed.</u>

While the controller is erasing the strategy, the ring indicator will remain yellow and appear to 'rotate'. When the reset is complete the controller will reboot as shown in step 9 on page 4.

The strategy, user modules (passwords, etc), alarm logs, and plots records are cleared down, and all other parameters will be returned to their default settings as shown in step 15 on page 7.

Note: Time and date are left at their current values, and the license is not affected by the reset.
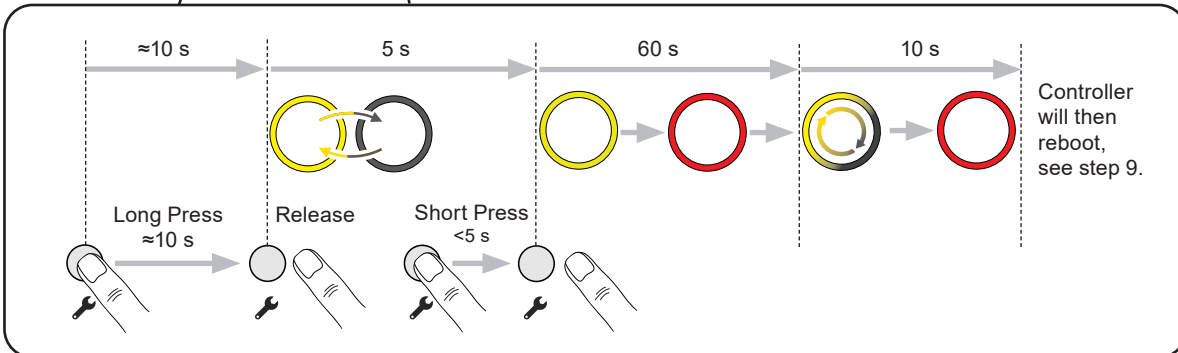
(3) Re-configure the Controller

Go to step 15 on page 7.

4   RESET IQ5-IO MODULE TO FACTORY DEFAULTS

A factory reset will erase all input/output settings and module address and reboot the module into its default configuration.

---

① **Isolate Power and Disconnect All I/O from the Module**

Follow steps 1, 2, 4, 8 and 9 (on pages 1 to 4) to:

- ▪ Isolate any power supplies used by the module inputs or outputs,
- ▪ Open panel,
- ▪ Disconnect all I/O from the module,
- ▪ Isolate the module power supply.

---

② **Perform the Reset**

With the module powered up, use the service button to initiate the reset process as follows:

The reset process will only take a few seconds depending on the module type. Do not remove power to the module until the process has completed.

When the reset is complete the module will reboot and the controller will attempt to re-address the module as shown in step 1 on page 14.

---
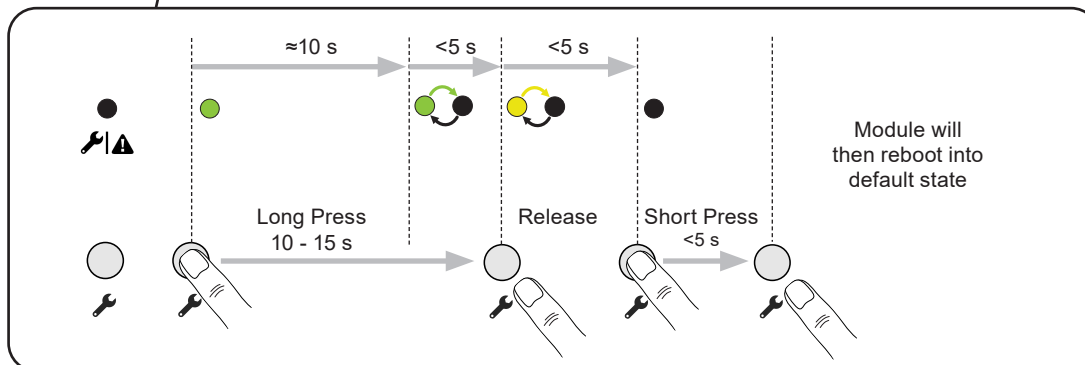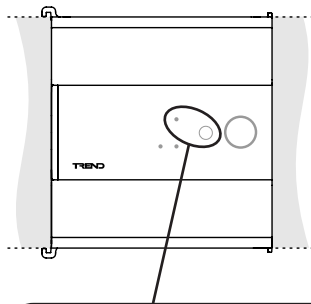
③ **Reconnect Inputs & Outputs and Check Operation**

Follow the guidance from step 27 on page 12, through to step 31 on page 17.

Trend Control Systems Limited
St. Mark's Court, North Street, Horsham, West Sussex, RH12 1BW, UK. Tel: +44 (0)1403 211888, www.trendcontrols.com