Honeywell

Honeywell Connected Life Safety Services

HON-DACT-DS

Installation and User Manual

LS10406-000HW-E

ECN 00052390

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FIRE ALARM & EMERGENCY COMMUNICATION SYSTEM LIMITATIONS

While a life safety system may lower insurance rates, it is not a substitute for life and property insurance!

An automatic fire alarm system—typically made up of smoke detectors, heat detectors, manual pull stations, audible warning devices, and a fire alarm control panel (FACP) with remote notification capability—can provide early warning of a developing fire. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire.

An emergency communication system—typically made up of an automatic fire alarm system (as described above) and a life safety communication system that may include an autonomous control unit (ACU), local operating console (LOC), voice communication, and other various interoperable communication methods—can broadcast a mass notification message. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire or life safety event. The Manufacturer recommends that smoke and/or heat detectors be located throughout a protected premises following the recommendations of the current edition of the National Fire Protection Association Standard 72 (NFPA 72), manufacturer's recommendations, State and local codes, and the recommendations contained in the Guide for Proper Use of System Smoke Detectors, which is made available at no charge to all installing dealers. This document can be found at http://www.systemsensor.com/appguides/. A study by the Federal Emergency Management Agency (an agency of the United States government) indicated that smoke detectors may not go off in as many as 35% of all fires. While fire alarm systems are designed to provide early warning against fire, they do not guarantee warning or protection against fire. A fire alarm system may not provide timely or adequate warning, or simply may not function, for a variety of reasons:

Smoke detectors may not sense fire where smoke cannot reach the detectors such as in chimneys, in or behind walls, on roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level or floor of a building. A second-floor detector, for example, may not sense a first-floor or basement fire. Particles of combustion or "smoke" from a developing fire may not reach the sensing chambers of smoke detectors because:

• Barriers such as closed or partially closed doors, walls, chimneys, even wet or humid areas may inhibit particle or smoke flow.

• Smoke particles may become "cold," stratify, and not reach the ceiling or upper walls where detectors are located.

• Smoke particles may be blown away from detectors by air outlets, such as air conditioning vents.

• Smoke particles may be drawn into air returns before reaching the detector.

The amount of "smoke" present may be insufficient to alarm smoke detectors. Smoke detectors are designed to alarm at various levels of smoke density. If such density levels are not created by a developing fire at the location of detectors, the detectors will not go into alarm. Smoke detectors, even when working properly, have sensing limitations. Detectors that have photoelectronic sensing chambers tend to detect smoldering fires better than flaming fires, which have little visible smoke. Detectors that have ionizing-type sensing chambers tend to detect fast-flaming fires better than smoldering fires. Because fires develop in different ways and are often unpredictable in their growth, neither type of detector is necessarily best and a given type of detector may not provide adequate warning of a fire.

Smoke detectors cannot be expected to provide adequate warning of fires caused by arson, children playing with matches (especially in bedrooms), smoking in bed, and violent explosions (caused by escaping gas, improper storage of flammable materials, etc.).

Heat detectors do not sense particles of combustion and alarm only when heat on their sensors increases at a predetermined rate or reaches a predetermined level. Rate-of-rise heat detectors may be subject to reduced sensitivity over time. For this reason, the rate-ofrise feature of each detector should be tested at least once per year by a qualified fire protection specialist. Heat detectors are designed to protect property, not life.

IMPORTANT! Smoke detectors must be installed in the same room as the control panel and in rooms used by the system for the connection of alarm transmission wiring, communications, signaling, and/or power. If detectors are not so located, a developing fire may damage the alarm system, compromising its ability to report a fire.

Audible warning devices such as bells, horns, strobes, speakers and displays may not alert people if these devices are located on the other side of closed or partly open doors or are located on another floor of a building. Any warning device may fail to alert people with a disability or those who have recently consumed drugs, alcohol, or medication. Please note that:

• An emergency communication system may take priority over a fire alarm system in the event of a life safety emergency.

• Voice messaging systems must be designed to meet intelligibility requirements as defined by NFPA, local codes, and Authorities Having Jurisdiction (AHJ).

• Language and instructional requirements must be clearly disseminated on any local displays.

• Strobes can, under certain circumstances, cause seizures in people with conditions such as epilepsy.

Studies have shown that certain people, even when they hear a fire alarm signal, do not respond to or comprehend the meaning of the signal. Audible devices, such as horns and bells, can have different tonal patterns and frequencies. It is the property owner's responsibility to conduct fire drills and other training exercises to make people aware of fire alarm signals and instruct them on the proper reaction to alarm signals.

In rare instances, the sounding of a warning device can cause temporary or permanent hearing loss.

A life safety system will not operate without any electrical power. If AC power fails, the system will operate from standby batteries only for a specified time and only if the batteries have been properly maintained and replaced regularly.

Equipment used in the system may not be technically compatible with the control panel. It is essential to use only equipment listed for service with your control panel.

Alarm Signaling Communications:

• **IP connections** rely on available bandwidth, which could be limited if the network is shared by multiple users or if ISP policies impose restrictions on the amount of data transmitted. Service packages must be carefully chosen to ensure that alarm signals will always have available bandwidth. Outages by the ISP for maintenance and upgrades may also inhibit alarm signals. For added protection, a backup cellular connection is recommended.

• **Cellular connections** rely on a strong signal. Signal strength can be adversely affected by the network coverage of the cellular carrier, objects and structural barriers at the installation location. Utilize a cellular carrier that has reliable network coverage where the alarm system is installed. For added protection, utilize an external antenna to boost the signal.

• **Telephone lines** needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily disabled. For added protection against telephone line failure, backup alarm signaling connections are recommended.

The most common cause of life safety system malfunction is inadequate maintenance. To keep the entire life safety system in excellent working order, ongoing maintenance is required per the manufacturer's recommendations, and UL and NFPA standards. At a minimum, the requirements of NFPA 72 shall be followed. Environments with large amounts of dust, dirt, or high air velocity require morefrequent maintenance. A maintenance agreement should be arranged through the local manufacturer's representative. Maintenance should be scheduled as required by National and/or local fire codes and should be performed by authorized professional life safety system installers only.

INSTALLATION PRECAUTIONS

Adherence to the following will aid in problem-free installation with long-term reliability:

WARNING - Several different sources of power can be connected to the fire alarm control panel. Disconnect all sources of power before servicing. Control unit and associated equipment may be damaged by removing and/or inserting cards, modules, or interconnecting cables while the unit is energized. Do not attempt to install, service, or operate this unit until manuals are read and understood.

CAUTION - System Re-acceptance Test after Software Changes:

To ensure proper system operation, this product must be tested in accordance with NFPA 72 after any programming operation or change in site-specific software. Re-acceptance testing is required after any change, addition or deletion of system components, or after any modification, repair or adjustment to system hardware or wiring. All components, circuits, system operations, or software functions known to be affected by a change must be 100% tested. In addition, to ensure that other operations are not inadvertently affected, at least 10% of initiating devices that are not directly affected by the change, up to a maximum of 50 devices, must also be tested and proper system operation verified.

This system meets NFPA requirements for operation at 0-49º C/32-120º F and at a relative humidity 93% ± 2% RH (non-condensing) at 32ºC ± 2ºC (90ºF ± 3ºF). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15-27º C/60-80º F.

Verify that wire sizes are adequate for all initiating and indicating device loops. Most devices cannot tolerate more than a 10% I.R. drop from the specified device voltage.

Like all solid state electronic devices, this system may operate erratically or can be damaged when subjected to lightning induced transients. Although no system is completely immune from lightning transients and interference, proper grounding will reduce susceptibility. Overhead or outside aerial wiring is not recommended, due to an increased susceptibility to nearby lightning strikes. Consult with the Technical Services Department if any problems are anticipated or encountered.

Disconnect AC power and batteries prior to removing or inserting circuit boards. Failure to do so can damage circuits.

Remove all electronic assemblies prior to any drilling, filing, reaming, or punching of the enclosure. When possible, make all cable entries from the sides or rear. Before making modifications, verify that they will not interfere with battery, transformer, or printed circuit board location.

Do not tighten screw terminals more than 9 in-lbs. Over-tightening may damage threads, resulting in reduced terminal contact pressure and difficulty with screw terminal removal.

This system contains static-sensitive components. Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. Usestatic suppressive packaging to protect electronic assemblies removed from the unit.

Units with a touchscreen display should be cleaned with a dry, clean, lint free/microfiber cloth. If additional cleaning is required, apply a small amount of Isopropyl alcohol to the cloth and wipe clean. Do not use detergents, solvents, or water for cleaning. Do not spray liquid directly onto the display.

Follow the instructions in the installation, operating, and programming manuals. These instructions must be followed to avoid damage to the control panel and associated equipment. FACP operation and reliability depend upon proper installation.

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FCC REQUIREMENTS

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause interference to radio communications. It has been tested and found to comply with the limits for Class A computing devices pursuant to Subpart B of Part 15 of FCC Rules, which is designed to provide reasonable protection against such interference when devices are operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user will be required to correct the interference at his or her own expense.

Canadian Requirements

This digital apparatus does not exceed the Class A limits for radiation noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la classe A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada

SOFTWARE DOWNLOADS

In order to supply the latest features and functionality in fire alarm and life safety technology to our customers, we make frequent upgrades to the embedded software in our products. To ensure that you are installing and programming the latest features, we strongly recommend that you download the most current version of software for each product prior to commissioning any system.

Contact Technical Support with any questions about software and the appropriate version for a specific application.

DOCUMENTATION FEEDBACK

Your feedback helps us keep our documentation up-to-date and accurate. If you have any comments or suggestions about our online

Help or printed manuals, you can email us.

Please include the following information:

- Product name and version number (if applicable)
- Printed manual or online Help
- Topic Title (for online Help)
- Page number (for printed manual)
- Brief description of content you think should be improved or corrected
- Your suggestion for how to correct/improve documentation

Send email messages to:

FireSystems.TechPubs@honeywell.com

Please note this email address is for documentation feedback only. If you have any technical issues, please contact Technical Services.

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SECTION 1: GENERAL INFORMATION

1.1 ABOUT THIS MANUAL

This HON-DACT-DS User Manual provides detailed procedures about installation, deployment, and operations of the DS-DACT. The manual describes:

- HON-DACT-DS communications,
- its installation environment, and
- initial configurations

1.1.1 USING THIS MANUAL

This manual is written with the understanding that the user is trained in the operations and services required for this product.

1.2 INFORMATION SOURCES

Honeywell offers suitable information sources based on informational requirements.

1.2.1 TRAINING MODULES

Training modules are available when logged onto:

https://fire.honeywell.com/#/help-videos

You can also use the below QR code to log onto fire.honeywell.com.

1.2.2 RELATED DOCUMENTS

The table below lists documents related with the HON-DACT-DS:

Product Type: HON-DACT-DS		
For This Purpose...		**Refer to...**
Install and operate quickly		HON-DACT-DS Quick Start Guide P/N: LS10406-351 HW-E
Install and operate the HON-DACT-DS		HON-DACT-DS Installation and User Manual (This document) P/N: LS10406-000HW-E
Product Type: Notifier Panels		
Product	**For This Purpose...**	**Refer to...**
NCA-2	Installation	NCA-2 Installation Manual 52482
NFS-320	Installation	NFS-320 Installation Manual P/N: 52745
	Programming	NFS-320 Programming Manual P/N: 52746
	Operation	NFS-320 Operations Manual P/N: 52747
	UL Listing Information	NFS-320 and NFS-320SYS Listing Document P/N: 52745LD

NFS2-640	Installation	NFS2-640 Installation Manual P/N: 52741
	Programming	NFS2-640 Programming Manual P/N: 52742
	Operation	NFS2-640 Operations Manual P/N: 52743
	UL Listing Information	NFS2-640 Listing Document P/N: 52741LD
NFS2-3030	Installation	NFS2-3030 Installation Manual P/N: 52544
	Programming	NFS2-3030 Programming Manual P/N: 52545
	UL Listing Information	NFS2-3030 UL Listing Document P/N: LS10006-051NF-E
N16	Installation, Programming, Operation	N16 Instruction Manual P/N: LS10239-000NF-E
	UL Listing Document	N16 UL Listing Document P/N: LS10239-051NF-E
Product Type: VeriFire® Tool		
For This Purpose...		**Refer to...**
Program the panels		VeriFire® Tools Help Files P/N: 51690
Product Type: Gamewell-FCI Panel		
Product	**For This Purpose...**	**Refer to...**
FCI E3	Installation	ILI-MB-E3 Installation Manual
	Programming	ILI-MB-E3 Intelligent Loop Interface-Main Board Installation Instructions
	Operation	ILI95-MB-E3 Installation Instructions
FCI S3	Installation, Programming, Operation	S3 Series Manual P/N: LS10005-051GF-E
Product Type: CAMWORKS Tool		
For This Purpose...		**Refer to...**
Program the panels		CAMWorks tool help.

1.3 REVISION HISTORY

Table 1.1
Dates and Changes

Date	Change Details
Rev. A	
Jul 12, 2024	First revision of the HON-DACT-DS Installation and User Manual

1.4 ABBREVIATIONS USED

Table 1.2
Abbreviations List

Abbreviation	Description
CLSS	Connected Life Safety Services
DS-DACT	Dark Site Digital Alarm Communicator Transmitter
POTS	Plain Old Telephone Service
PSTN	Public Switched Telephone Network.
UDACT	Universal Digital Alarm Communicator Transmitter

1.5 SPECIFICATIONS

DC Power - TB1

- Requires 24VDC (nominal) regulated, non-resettable and power-limited power.
- Supervised.
- Typical Current:
  18-30 VDC
  150mA
- 12-18 AWG - wire must be sized for a voltage drop of no more than two volts.

1.6 TELEPHONE

NOTE: This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the back of the door of HON-DACT-DS is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

1.6.1 CIRCUITRY

Ringer Equivalence Number (REN) = 0.2A

- AC Impedance 10.0 Mega Ohm
- Mates with RJ31X Male Connector
- Supervision Threshold: less than 4.0 volts for 2 minutes

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive REN on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN, contact the telephone company to determine the maximum REN for the calling area.

Before connecting the HON-DACT-DS to the public switched telephone network, the installation of two RJ31X jacks is necessary. The following information is provided if required by the local telephone company:

Manufacturer:	Honeywell Life Safety 12 Clintonville Road Northford, CT 06472
Product Model Number:	HON-DACT-DS
FCC Registration Number:	US:1W6AL02ACGWMB
Ringer Equivalence:	0.2A

CAUTION: The HON-DACT-DS MUST NOT BE USED TO DIAL A PHONE NUMBER THAT IS CALL-FORWARDED PER REQUIREMENTS OF UL 864 10TH EDITION.

1.6.1 TELEPHONE COMPANY RIGHTS AND WARNINGS

The telephone company under certain circumstances may temporarily discontinue services and/or make changes in its facilities, services, equipment or procedures which may affect the operation of this control panel. However, the telephone company is required to give advance notice of such changes or interruptions.

If the control panel causes harm to the telephone network, the telephone company reserves the right to temporarily discontinue service. Advance notification will be provided except in cases when advance notice is not practical. In such cases, notification will be provided as soon as possible. The opportunity will be given to correct any problems and to file a complaint.

WARNING: DO NOT CONNECT THIS PRODUCT TO COIN TELEPHONE, GROUND START, OR PARTY LINE SERVICES.

When the control panel activates, premise phones will be disconnected.

Two separate phone lines are required. Do not connect both telephone interfaces to the same telephone line.

The control panel must be connected to the public switched telephone network upstream of any private telephone system at the protected premises.

An FCC compliant telephone cord must be used with this equipment. This equipment is designed to be connected to the telephone net- work or premises wiring using a compatible RJ31X male modular plug which is Part 68 compliant.

1.7 FCC COMPLIANCE

- FCC Registration Number for the HON-DACT-DS: US:1W6AL02ACGWMB

1.8 NFPA COMPLIANCE (USA)

Install the HON-DACT-DS in accordance with the National Fire Protection Association

Installation Standard NFPA 70 and NFPA 72.

1.9 WARNINGS AND CAUTIONS IN THIS MANUAL

WARNING: These instructions contain procedures to follow to avoid injury and damage to equipment. It is assumed that the user of this manual has been suitably trained and is familiar with the relevant regulations.

CAUTION: USERS MUST FOLLOW THE PROCESSES AND USAGES APPROVED AS PER THE REGULATORY COMPLIANCE. A CHANGED OR MODIFIED USAGE NOT EXPRESSLY APPROVED BY COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE HON-DACT-DS.

1.10 DISCLAIMER

Images in the document are for reference purpose only and are subject to change. All trademarks, service marks, word marks, design marks, and logos are property of their respective owners.

SECTION 2: OVERVIEW

The DS-DACT supports telephone-line connection options for alarm transmissions. The alarm transmission occurs through a primary connection or a secondary connection.

NOTE: For all the communications 24-volt (nominal) connections are required.

2.1 OPERATION

The DS-DACT is mounted outside a fire panel. It works with a variety of control panels to transmit system status to UL-Listed Central Station Receivers. For this purpose, it uses modular jacks to interface the primary and secondary phone lines to the public switched telephone network.

The communication path is as per the UL 864 (10th ed.) requirements (41.3.2.9).

2.2 FEATURES

- Dual telephone lines
- Dual telephone line voltage detection
- Digital Communicator provides:
    - Line Seizure - takes control of the phone lines disconnecting any premises phones
    - Dial tone recognition - 350 and 440 hertz tone typical in most networks
    - Central Station number(s) dialing
    - Protocols: Ademco Contact ID
    - Programming created over webserver using USB port
- Communicates vital system status including:
    - Independent zone/point alarm, trouble and supervisory
    - Security, panel off-normal, NAC trouble
    - AC (main) power loss (2-hour report delay)
- LED status indicators for power, panel connection lost, Central Station Handshake Signal, and communication failure
- Central Station Report generation from the CLSS Site Manager

2.3 THE CONNECTION OPTIONS

Through the public switched telephone network, the DS-DACT can transmit zone and system status reports to alarm monitoring stations.

Phone Numbers

The DS-DACT can dial into the alarm monitoring station through a primary telephone number. There could also be a secondary telephone number. If only one phone number is programmed, all system reports are transferred through that number only.

Failover Connection

If two phone numbers are programmed, the first one acts as the *primary* phone number of the alarm monitoring station.

The secondary connection is the backup phone line. If attempts to transmits to the primary phone number are unsuccessful, reports will automatically be sent to the secondary phone number.

NOTE: A Communicator Failure report will be displayed after 5 failed attempts when single line is configured, if it dual line is configured, Failure report will be displayed on 10 failed attempts..

NOTE: The DS-DACT meets NFPA 72 National Fire Code reporting requirements for: (a) the type of signal, (b) condition, and (c) location of the reporting premises.

Supervising

The DS-DACT board supervises both the primary and secondary telephone lines for proper voltage. If there is any fault in a phone line connection, and if the fault is not resolved within two minutes, it is reported as trouble.

The DS-DACT board comes with line seizure capability, which is provided for both the primary and secondary telephone line interfaces. Any time that the DS-DACT board needs to make a call to an alarm monitoring station, line seizure will disconnect any local premises phones, which are sharing the same telephone line.

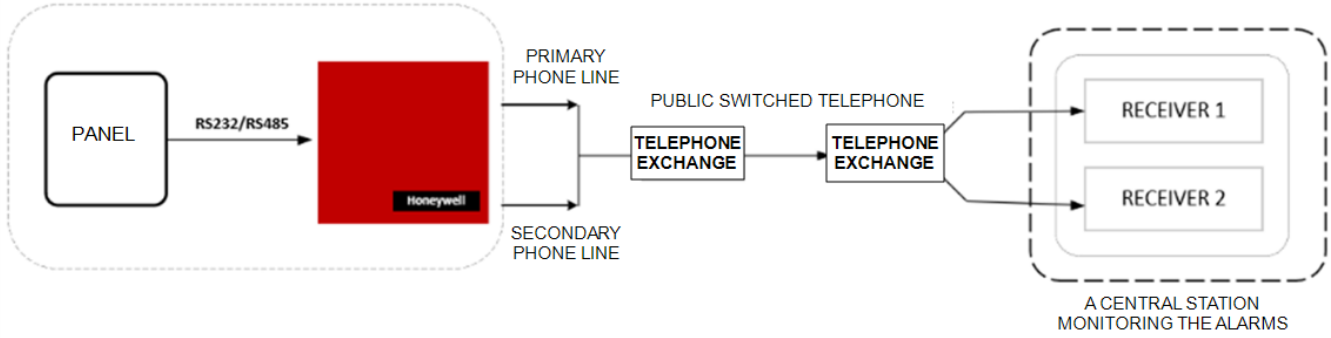


Figure 2-1: DS-DACTs Data Transmissions

2.4 COMPATIBLE UL-LISTED RECEIVERS

The chart below shows UL listed receivers compatible with the DS-DACT board. All the below listed receivers support Ademco Contact ID protocol.

Receiver
Ademco 685[1]
Ademco MX8000[2]
Silent Knight 9500[3]
Silent Knight 9800[4]
FBI CP220FB[5]
Osborne Hoffman 2000E[6]
Radionics 6600[7]
SurGard MLR2[8]
SurGard System III[9]
SurGard MLR-2000[10]

[1]With 685-8 Line Card with Rev 4.4d software.
[2]With 124060V206B and 124063 Line Card Rev. B.
[3]With version V2.4 Receiver and 126047 Line Card Rev G.
[4]With 124077V2.00 Receiver and126047 Line Card Rev M.
[5]With software V3.9.
[6]With V.7301 Receiver S/W.
[7]With 01.01.03 Receiver S/W and Line Card 01.01.03.
[8]With software V1.86.
[9]With software V1.72.
[10]With DSP4016 and V1.6 Line Card.

2.5 TRANSMITTAL PRIORITIES

The integral communicator transmits highest priority events first.

Events, in terms of priority, are listed below in descending order:

01. Alarms (highest priority level)
    - Pull stations
    - Water flow
    - Smoke detector
    - Other fire alarm types
    - CO alarm
02. Supervisory Zone
03. System/Point Troubles
    - Zone disabled
    - Fire drill
    - AC fail (after delay)
    - Zonal faults
    - Earth fault
    - Low battery
    - Telephone line fault
    - Notification Appliance Circuits fault
    - Communication trouble
    - Annunciator trouble
    - System off normal
04. Restoral Reports
    - Zone alarm
    - Supervisory
    - Zone(s) enabled
    - Fire drill
    - AC
    - Zone fault
    - Earth
    - Battery
    - Telephone line
    - Notification Appliance Circuits
    - Communication
    - Annunciator trouble
    - System off normal
05. Test Signal

2.6 SKU

SKU	Description
HON-DACT-DS	General SKU for the Dialer includes Mainboard, Telco/POTS Card, and enclosure that mounts them.

2.7 SUPPORTED PANELS

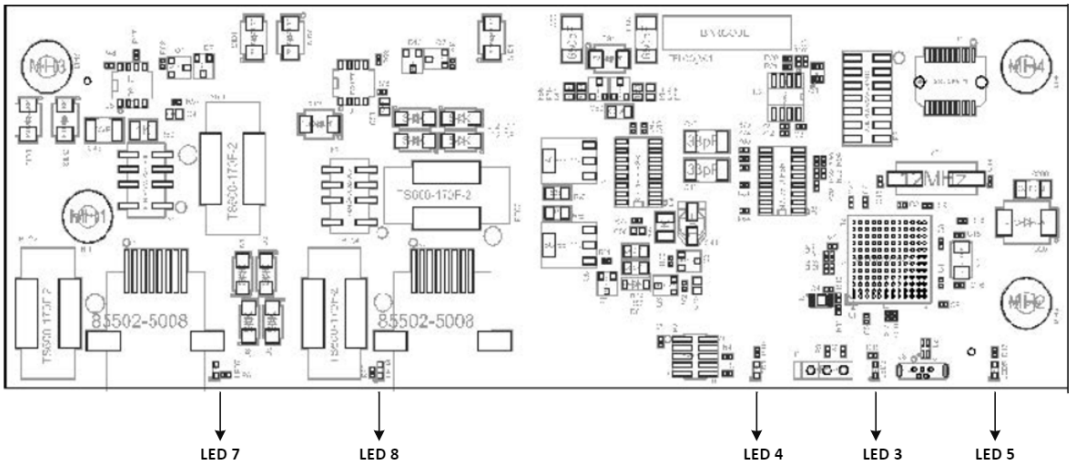
The DS-DACT is compact in size and mounts externally in a separate enclosure. The DS-DACT is compatible with the following panels:

Table 2.1 Supported Panels

Fire Alarm Panel Models	RS485	UART/TTL	NUP (RS232)	USB
Notifier - ONYX Panels				
NFS-320	No	No	Yes	No
NFS-640	No	No	Yes	No
NFS2-640	No	No	Yes	No
NFS-3030	No	No	Yes	No
NFS2-3030	No	No	Yes	No
Notifier - INSPIRE Panels				
N16E	No	No	Yes	No
N16X	No	No	Yes	No
Gamewell-FCI E3/S3 Series Panels				
ILI-MB-E3	Yes	No	No	No
ILI95-MB-E3	Yes	No	No	No
S3 Series Panels				
SLP-E3	Yes	No	No	No

NOTE: For Notifier the NUP/RS232 cable limits the connection length to a maximum of 20 inches.

2.8 DS-DACT - POTS BOARD LAYOUT



2.8.1 LED INDICATORS

- LED5 Green – Power LED: Indicates DS-DACT card has power
- LED3 Green – Kissoff LED: Flashes ON whenever the DS-DACT card successfully transmits an event to the alarm monitoring station. The Kissoff LED may turn ON several times.
- LED4 Green – Heartbeat LED: Flashes every 1 second to indicate that the DS-DACT microprocessor is running.
- LED7 Red – DS-DACT Line 1: ON indicates DS-DACT Line 1 is activated (off-hook)
- LED8 Red – DS-DACT Line 2: ON indicates DS-DACT Line 2 is activated (off-hook)

2.9 HON-DACT-DS MAIN BOARD LAYOUT

The Printed Circuit Board: Layout below points out those parts that are used for connections and trouble shooting.

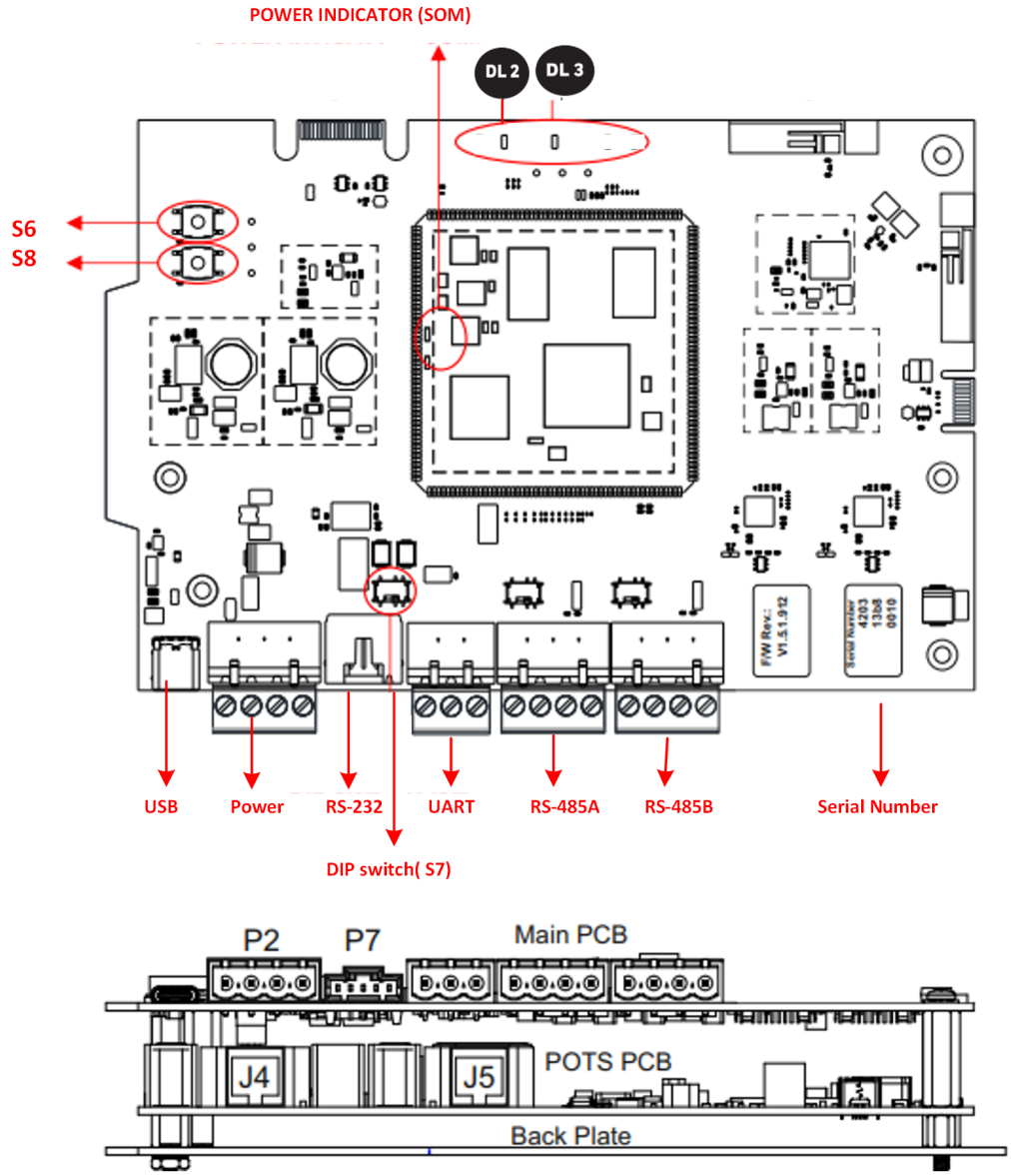


Figure 2-2: Printed Circuit Board: Layout

2.9.1 MAIN BOARD LED INDICATORS

The LED indicators on the mainboard use different colors to identify the operational status.

Table 2.2
LED Indicators and Their Messages

SOM Power-Indicating LED	
Indicates the mainboard's received power status.	
	**ON** The mainboard is receiving 24V power from its power source. **OFF** The mainboard is *not* receiving power.
DL2 Trouble LED	
Indicates the mainboard's operational status	
	**OFF** There are no issues. **ON** There is a critical error in the system. **FLASHING FAST** (flashes once per 0.5 second) There are communication issues with the panel or the telephone connections. Possible issues: Panel communication failure POTS card missing POTS Line 1 failure POTS line 2 failure POTS card missing Call routing failure Receiver 1 not available
DL3 Panel Connectivity LED	
Indicates the connection status of the panel	
	**FLASHING SLOW** (flashes once per 1 second) The panel is connected with the mainboard. **FLASHING FAST** (flashes once per 0.2 second) The mainboard is fetching the inventory data. **ON** Configuration mode is enabled for configuring the mainboard network settings. **OFF** The mainboard is *not* communicating with the panel.

2.9.2 SWITCHES ON THE MAINBOARD

Below table informs about the switches on the mainboard.

Table 2.3 Mainboard Switches

Switches	Purpose
S6	For securely configuring the mainboard's settings Pressing the switch for six seconds switches the mainboard to the configuration mode.
S7	For changing the direction of the 24V power of the NUP/RS232 connector NUP_IN: The mainboard receives power through its NUP/RS232 port. NUP_OUT: The mainboard receives power through its power supply port, which is connected to an external power supply source.
Tamper 1	For alerting whenever the mainboard enclosure door is opened It is located at the front-side of the mainboard, next to the LED indicators.
Tamper 2	For alerting whenever the mainboard is removed from the enclosure It is located at the backside of the mainboard.

SECTION 3: INSTALLATION

The HON-DACT-DS needs to be connected with two independent telephone lines.

CAUTION: Before installing, it is the installer's responsibility to ensure that the Digital Alarm Communicator/Transmitter is compatible with the alarm monitoring station Receiver, utilized by the monitoring service. Changes in the hardware and/or software by the receiver manufacturers may affect the receiver compatibility with the FACP DACT. After completing the installation, communication between the HON-DACT-DS and alarm monitoring station Receiver must be tested and verified.

CAUTION: The HON-DACT-DS must not be used to dial a phone number that is call-forwarded per requirements of UL 864 10th Edition.

3.1 TELEPHONE LINES CONNECTIONS

Provision to connect to two independent telephone lines is available via two telephone jacks labeled "PRI" (Primary) and "SEC" (Secondary). Telephone line control/command is possible via double line seizure using an RJ31X style interconnection. (RJ31X jacks must be ordered separately).

The primary as well as the secondary phone line connections to the platform ensure continuous connectivity.

NOTE: 4 pin telephone connector with only pin 4 and pin 5 selected will not support event transmission between the POTS card and the Central station receiver.

NOTE: The minimum wire gauge allowed is 26 AWG.

Table 3.1
Ports on the DS-DACT Board

Port Name	Purpose
Line 1 (J4)	Acts as the primary HON-DACT-DS line port connected by an RJ31X jack
Line 2 (J5)	Acts as the secondary HON-DACT-DS line port connected by an RJ31X jack

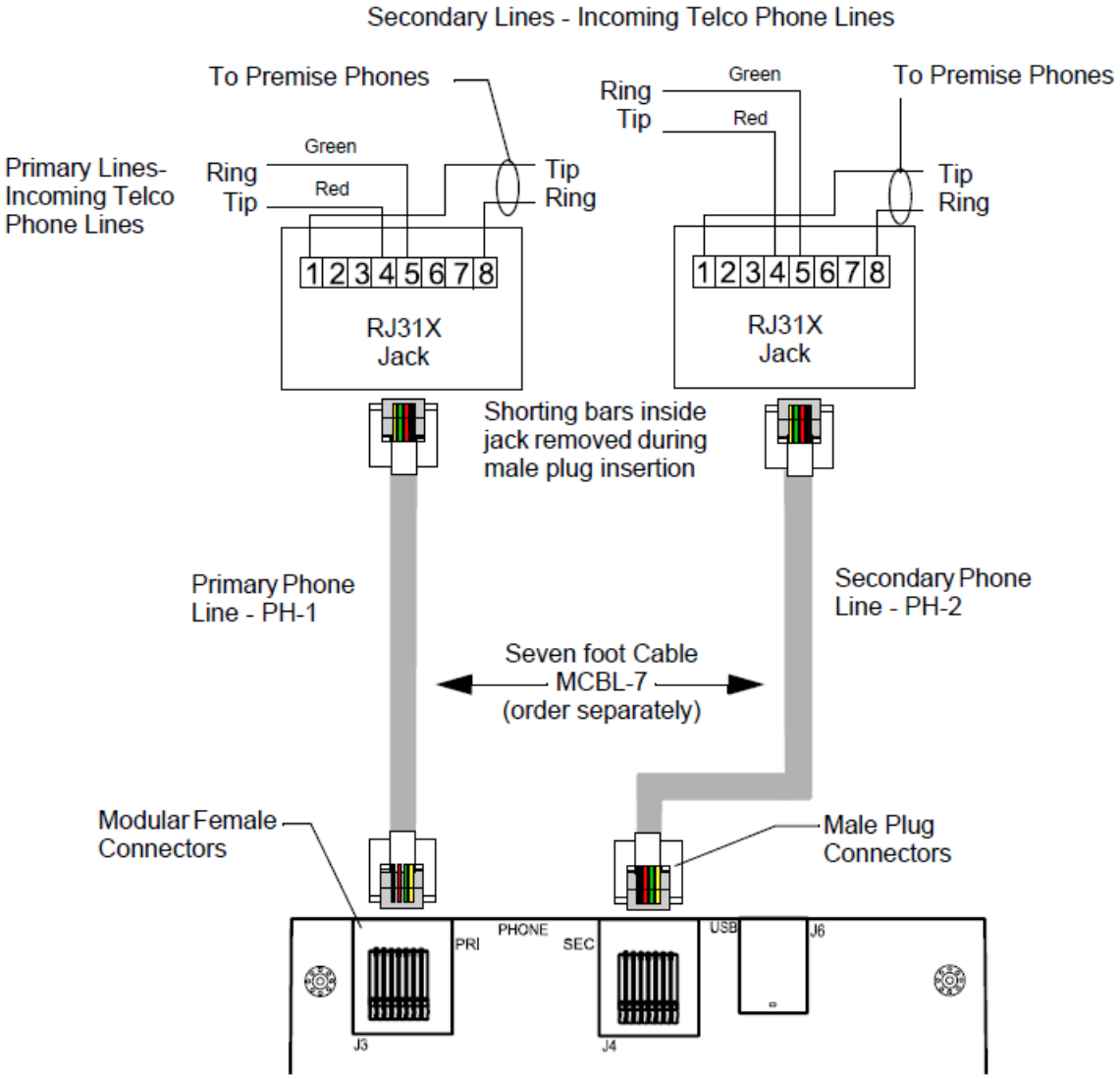


Figure 3-1: Wiring Phone Jacks

3.2 UL POWER-LIMITED REQUIREMENTS

Power-limited and non-power-limited circuit wiring must remain separated in the cabinet. All power-limited circuit wiring must remain at least 0.25" (6.35 mm) away from any non-power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non-power-limited circuit wiring must enter and exit the cabinet through different knockouts and/or conduits.

Power-limited (Class 2) and non-power-limited circuit wiring must remain separated in the cabinet. The following requirements apply:

- All power-limited circuit wiring must remain 0.25 inches (6.35mm) from non-power-limited circuit wiring.
- All power-limited and non-power-limited circuit wiring must enter and exit the cabinet through different knockouts or conduits.
- If the device connected is only power-limited when connected to a power-limited source, the power limited marking must be removed, and at the time of installation, each non-power-limited circuit connected to these module must be identified in the space provided on the cabinet door label.
- If additional knockouts are added to the backbox, proper separation of power-limited and non-power-limited wiring should be maintained.

NOTE: Relays are power-limited only when connected to power-limited sources for the relay outputs.

3.2.1 HON-DACT-DS PARTS

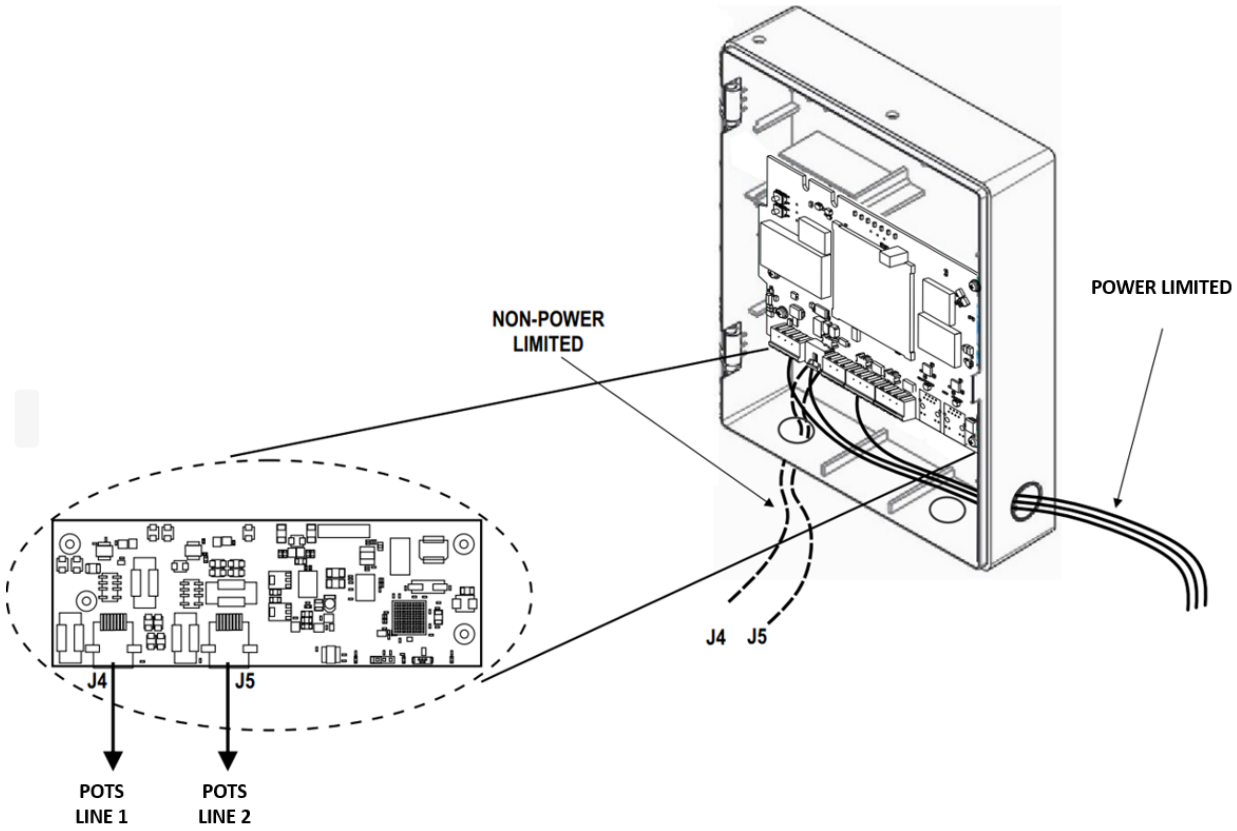


Figure 3-2: HON-DACT-DS: Typical UL Power-limited Wiring

3.3 SUPPORTED TOPOLOGIES

The following topologies between the HON-DACT-DS and a panel support event routing to a monitoring service

3.3.1 HON-DACT-DS CONNECTION TO A NOTIFIER PANEL

3.3.1.1 To Use a NUP Connection

NOTIFIER panel variants uses a NUP connection with the HON-DACT-DS.

On the HON-DACT-DS Side:

- Connect the NUP cable to the NUP port of the HON-DACT-DS Main board.
- The NUP port is labeled in the Stand-alone Panel: NUP Connection.

On the Panel Side

In the NUP socket of the panel:

- Stand-alone Panel: Connect the NUP cable.

3.3.1.2 HON-DACT-DS Connection with the Panel

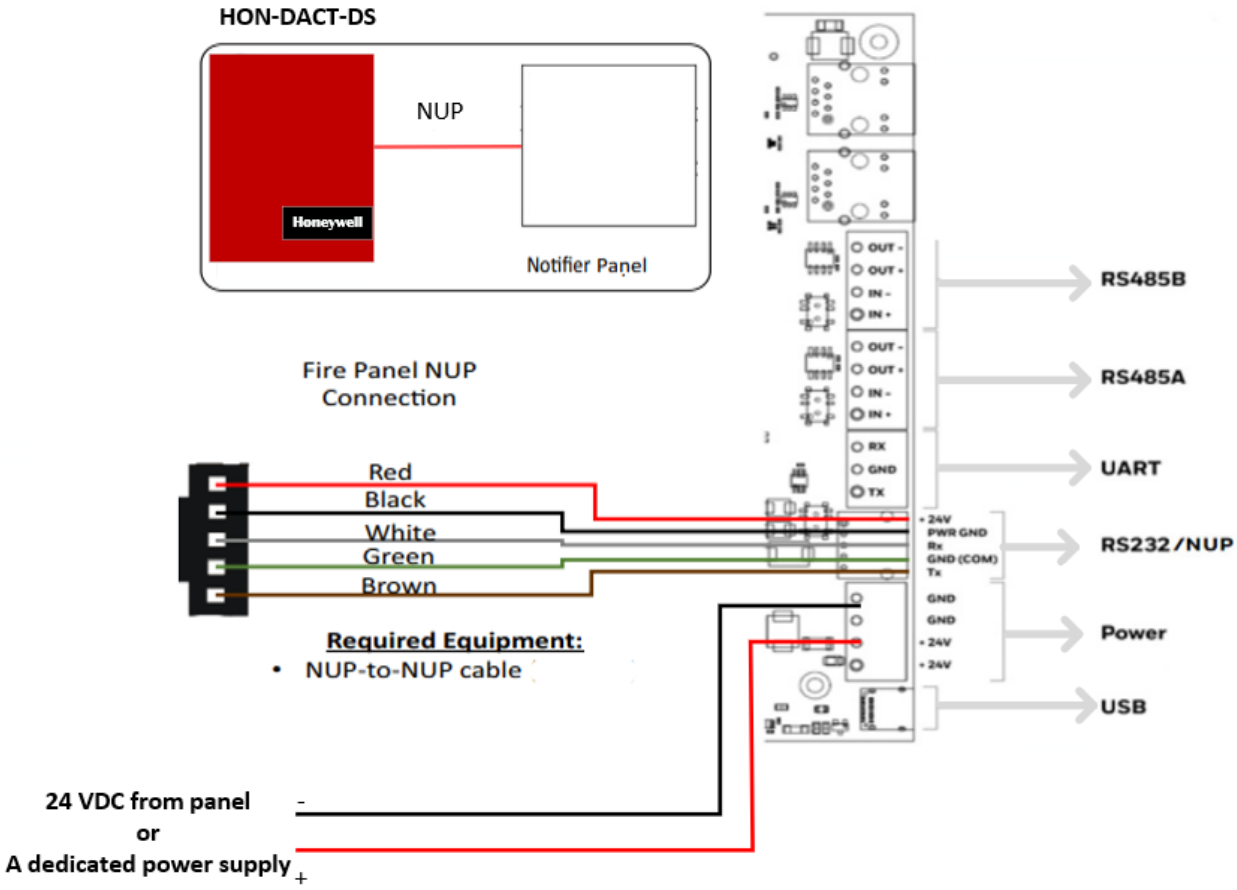


Figure 3-3: Stand-alone Panel: NUP Connection

3.3.1.3 Standard-speed Network of Panels

Add an additional standard NCM card to the panel for the HON-DACT-DS connection.

For the standard-speed network, each device should have its NCM card on the panel with an available port.

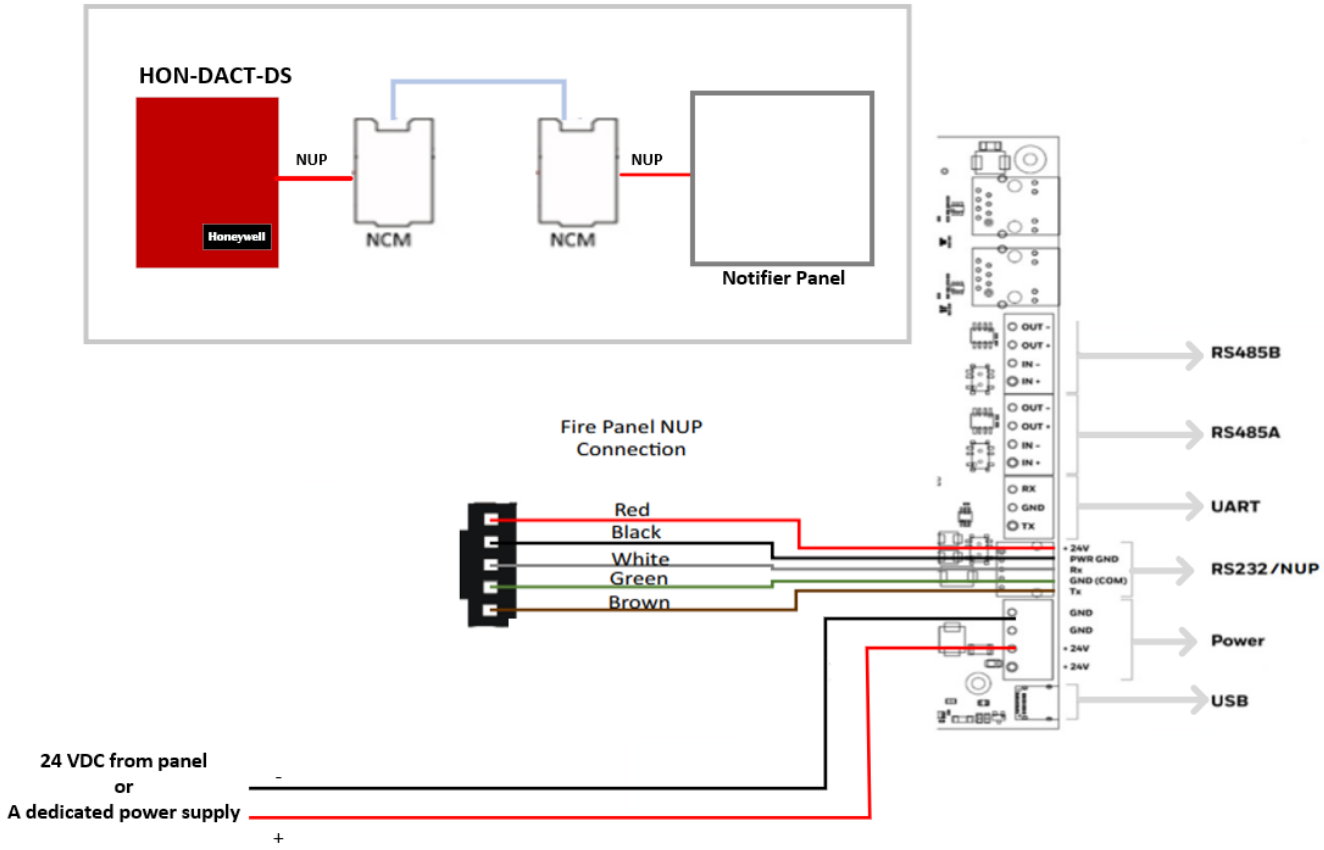


Figure 3-4: Standard-speed Network Panel: NUP Connection

3.3.1.4 High-speed Network of Panels

Connect the NUP cable into an open NUP port of the HS-NCM card on the panel. If no NUP port is available, an additional HS-NCM card must be added and connected.

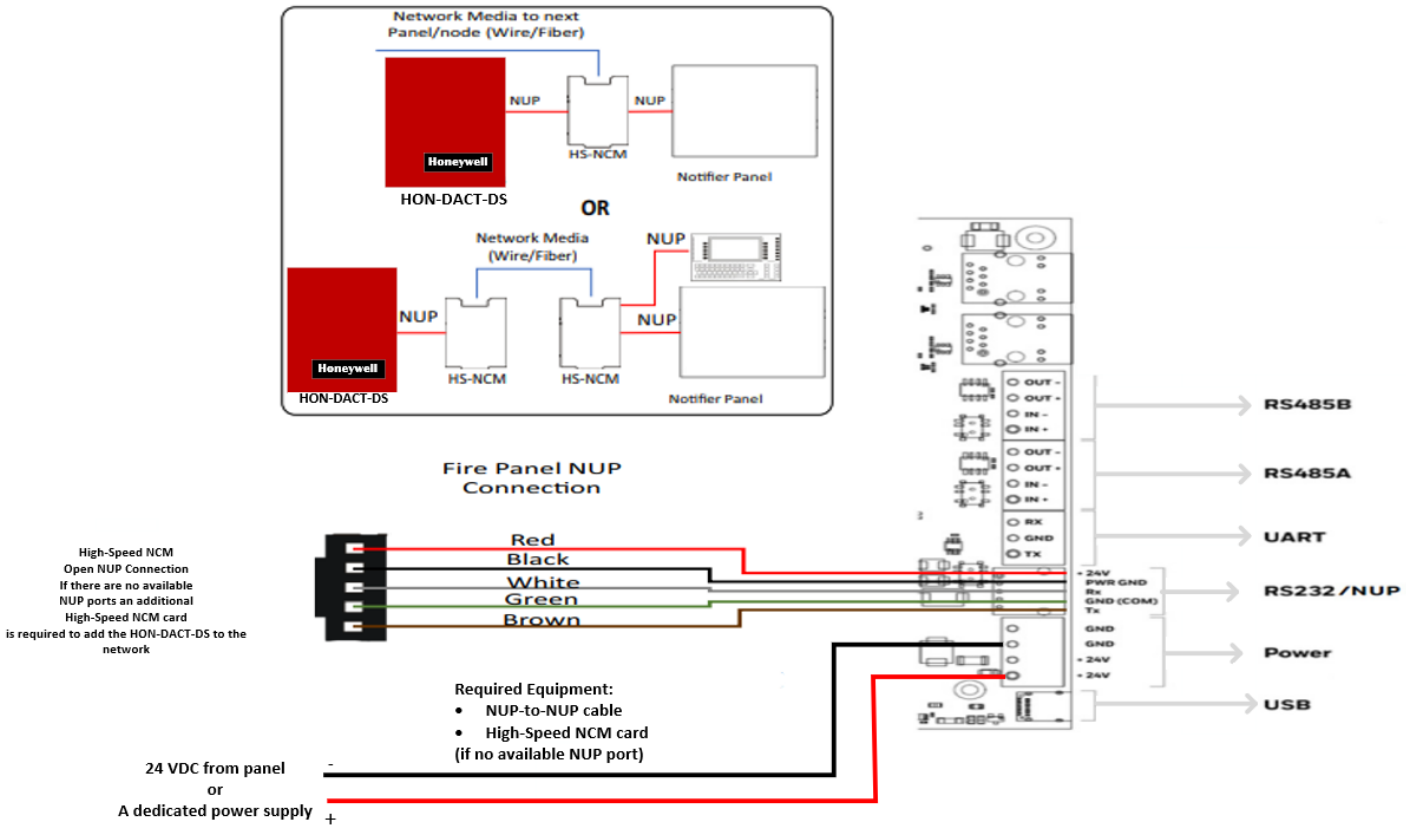


Figure 3-5: High-speed Network Panel: NUP Connection

3.3.1.5 Connection through a DVC Card

Connect the NUP port of the HON-DACT-DS and the DVC with a NUP cable. Then, connect the NUP port of the DVC and the panel.

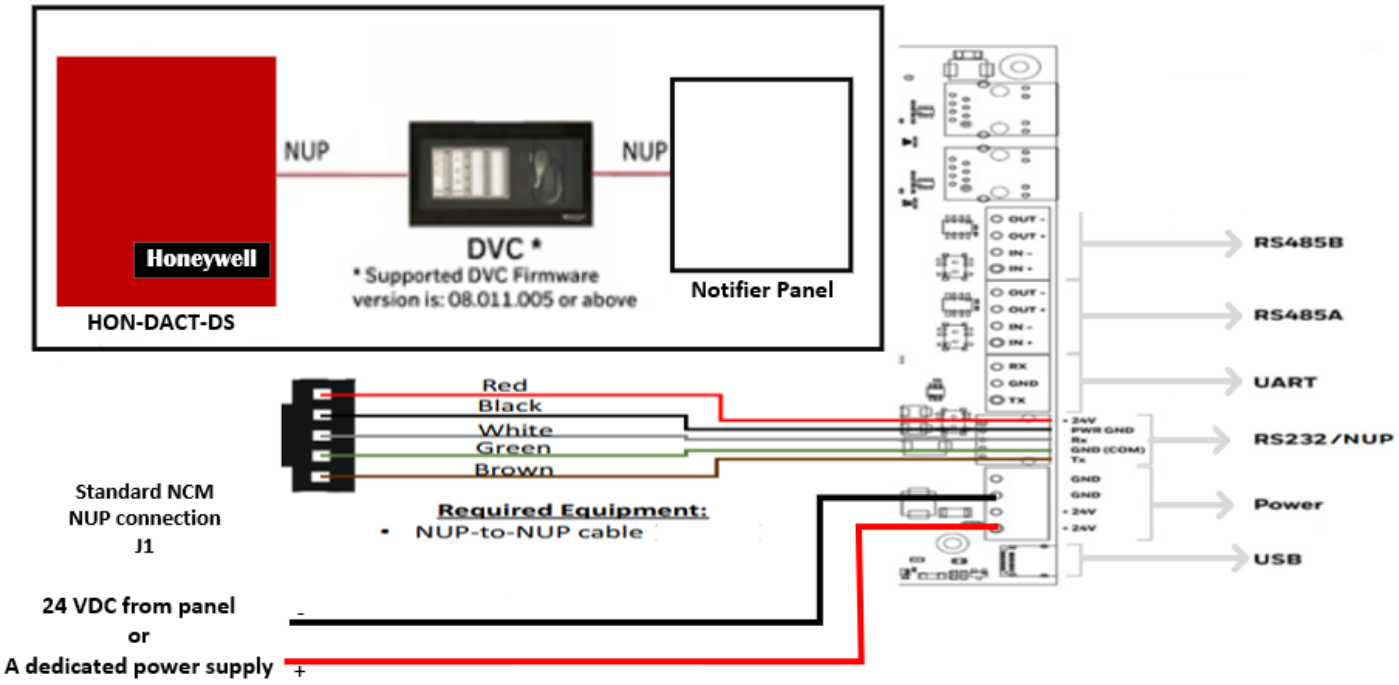


Figure 3-6: HON-DACT-DS Connection to Panel via DVC

3.3.1.6 N16 or NFS2-3030: Disconnection Messages

Disconnection Between the HON-DACT-DS and the DVC



Panel Message	
Central Station Message	[*DVC_NODE_NUMBER*] COMMUNICATION LOSTOR [*FIRE PANEL_NODE_NUMBER*] COMMUNICATION LOST NETWORK MODULE COMMUNICATION LOST

Disconnection Between the DVC and the Panel



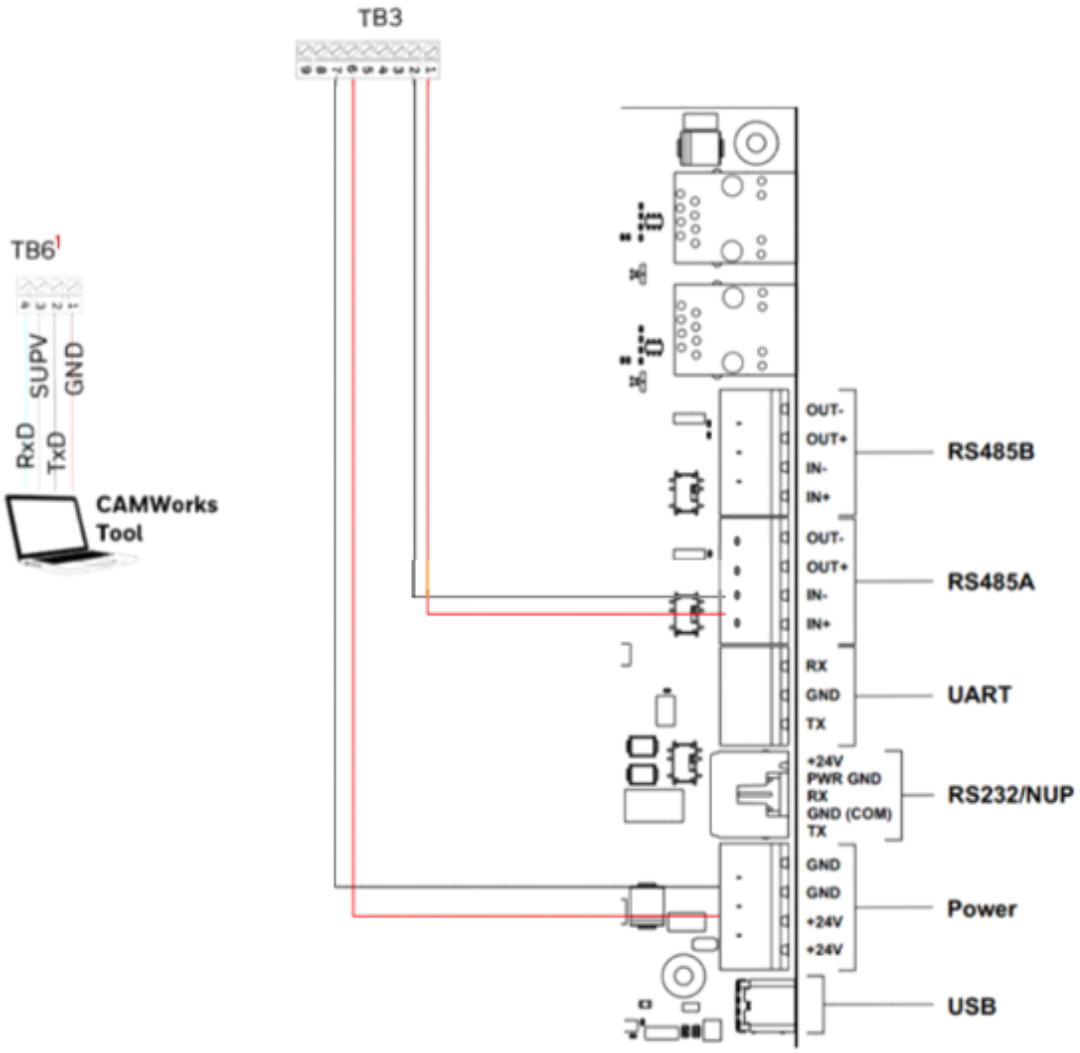
Panel Message	[*DVC_NODE_NUMBER*] COMMUNICATION LOST
Central Station Message	[*FIRE PANEL_NODE_NUMBER*] COMMUNICATION LOST

Disconnection Between the HON-DACT-DS, DVC, and the Panel



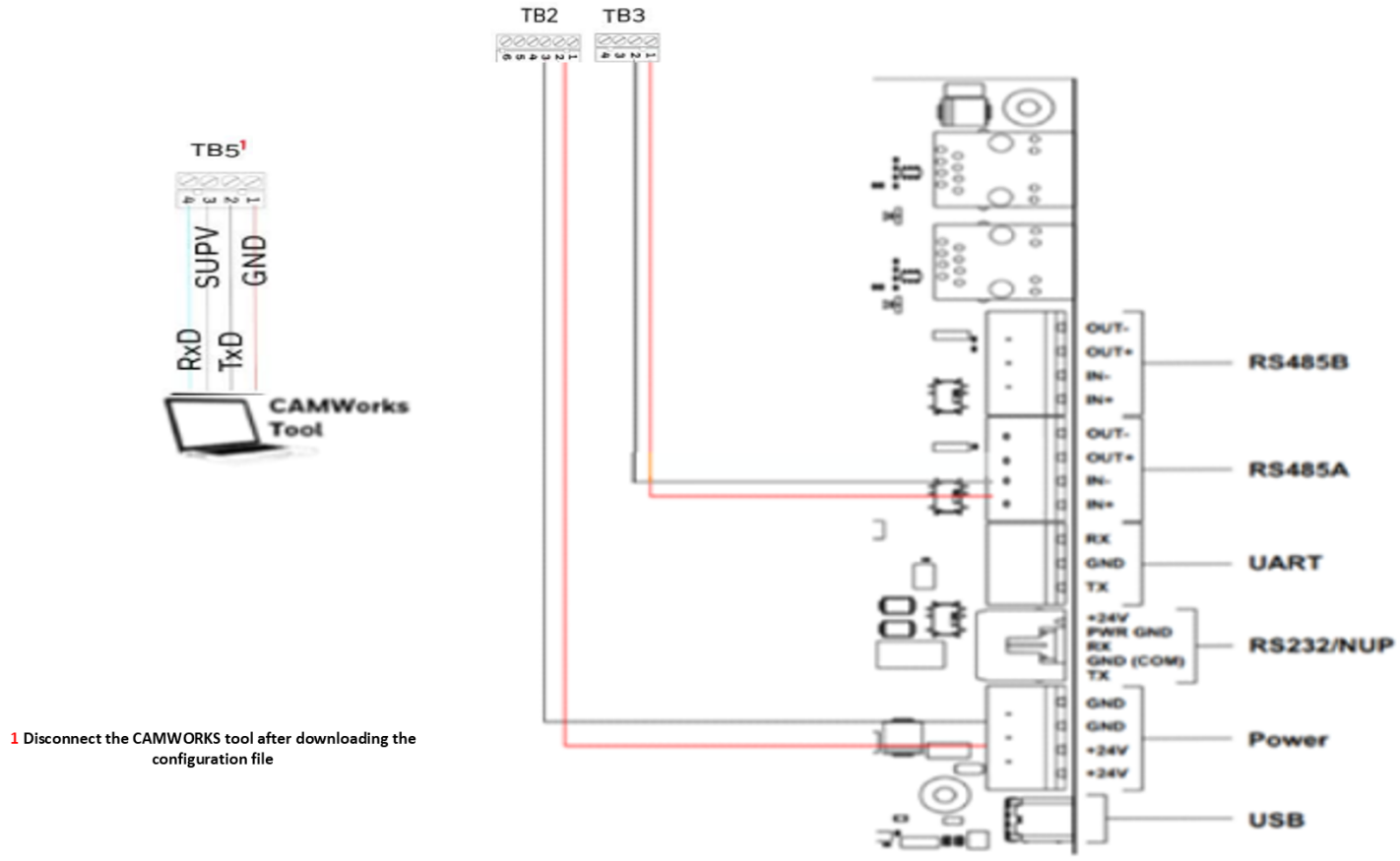
Panel Message	
Central Station Message	[*DVC_NODE_NUMBER*] COMMUNICATION LOST OR [*FIRE PANEL_NODE_NUMBER*] COMMUNICATION LOST NETWORK MODULE COMMUNICATION LOST

3.3.2 HON-DACT-DS CONNECTION TO A GAMEWELL-FCI PANEL E3/S3 SERIES



[1] Disconnect the CAMWorks Tool after downloading the configuration file.

Figure 3-7: HON-DACT-DS Connection to Gamewell-FCI Panel E3



1 Disconnect the CAMWORKS tool after downloading the configuration file

Figure 3-8: HON-DACT-DS Connection to Gamewell-FCI Panel S3

Minimum Required Versions

E3 Series: 7.00.109
S3 Series: 7.00.109
LCD-SLP (Display Panel): 2.12.090
NGA-K: 7.01.001
HON-DACT-DS : 1.5.1.42

Note:

- RS-485B and UART are not used in HON-DACT-DS for any panels.
- In CAMWORKS tool select CLSS Gateway for HON-DACT-DS while programming the Gamewell-FCI panel.
- Gamewell-FCI Panel displays all the System troubles received from the HON-DACT-DS with caption CLSS GTWAY.
- When HON-DACT-DS and CLSS Gateway are in the same network user can differentiate the error message based on the Node number.

SECTION 4: CONFIGURATIONS

Using the HON-DACT-DS Configuration Tool, the HON-DACT-DS settings are configured.

4.1 PREREQUISITES

Ensure that you have registered with your vendor for the alarm services. The details required for registration are:

- Primary phone number and secondary phone number
- Primary account number and secondary account number

NOTE: The Primary and secondary account numbers can be same, if user prefers.

After 15 min, Webpage will automatically log out. Kindly save the changes once you complete each page

4.2 TO CONFIGURE THE ALARM TRANSMISSIONS

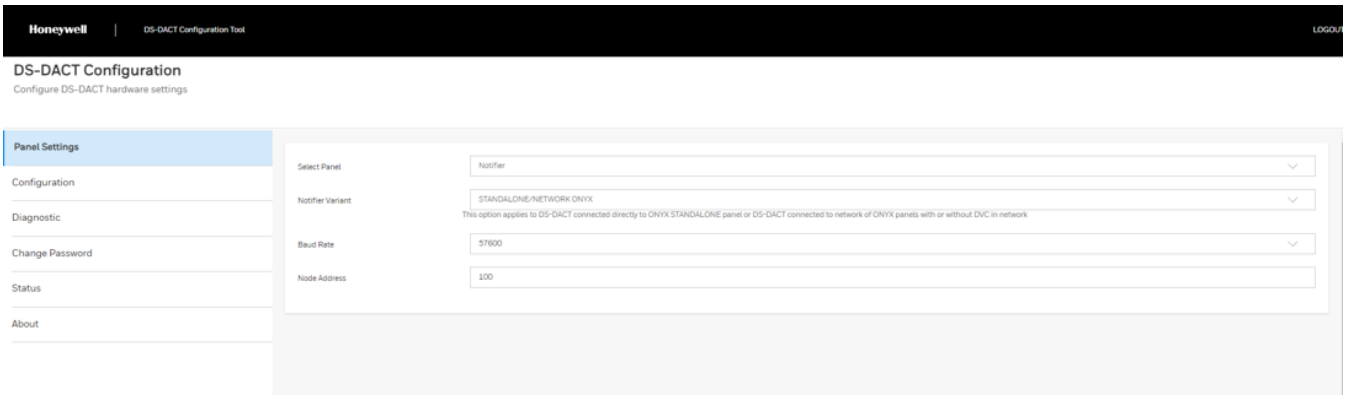
01. On the HON-DACT-DS board, connect provided USB Type C ethernet converter to the USB port of the HON-DACT-DS main board, connect the Ethernet cable to PC .
02. Press and hold the S6 button on the main board, for a minimum of 6 seconds, and then release it. It will switch the HON-DACT-DS configuration mode, the LED indicator DL3 turns ON and SOLID on Main board, indicating that the configuration is enabled.
03. Open the Chrome browser ,
https://192.168.10.190:9443/config/index.html

NOTE: Configuration PC Ethernet settings need to be changed to static IP address:
- Go to Control Panel > Network and Internet > Network Connection
- Right click on the Ethernet, Go to Properties, double click Internet Protocol Version 4(TCP/IPv4).
- Select "Use the Following IP address" and Update as below

IP address : 192.168.10.180
Subnet : 255.255.255.0
Default gateway: 192.168.10.1

04. In the Sign In page, enter the password.
The default password is: Welcome123.
05. Select the panel from the Panel settings.

If the selected brand is Notifier, select the Notifier Variants



- STANDALONE/NETWORK INSPIRE
    - This option applies to DS-DACT connected directly to INSPIRE STANDALONE panel or DS-DACT connected to network of INSPIRE panels and/or network of the ONYX panels with or without DVC in network.
- STANDALONE/NETWORK ONYX
    - This option applies to DS-DACT connected directly to ONYX STANDALONE panel or DS-DACT connected network of ONYX panels with or without the DVC in network.
- STANDALONE ONYX + DVC
    - This option applies to DS-DACT connected to ONYX STANDALONE panel or INSPIRE STANDALONE panel when DVC is directly connected to STANDALONE panel.

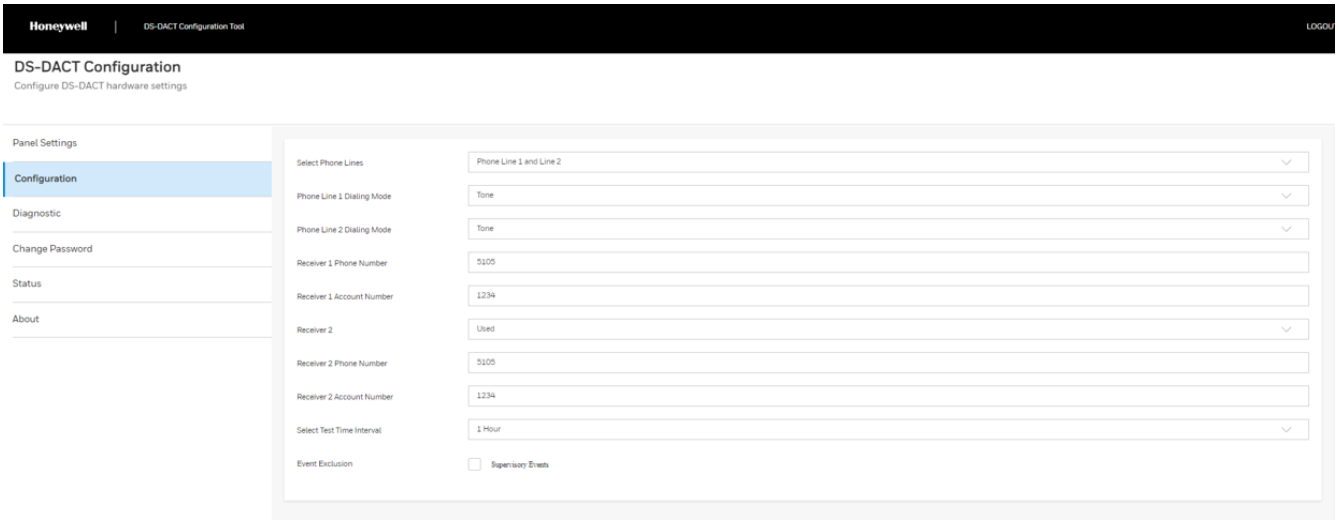
06. Selected the node from the Panel setting Page.

    For Notifier, allowed node address is 1 to 223, its defaulted to 223

    For Gamewell-FCI, node addressed is fixed to 130 it cannot be changed.

07. Provide the following required details from the configuration page for connecting central station

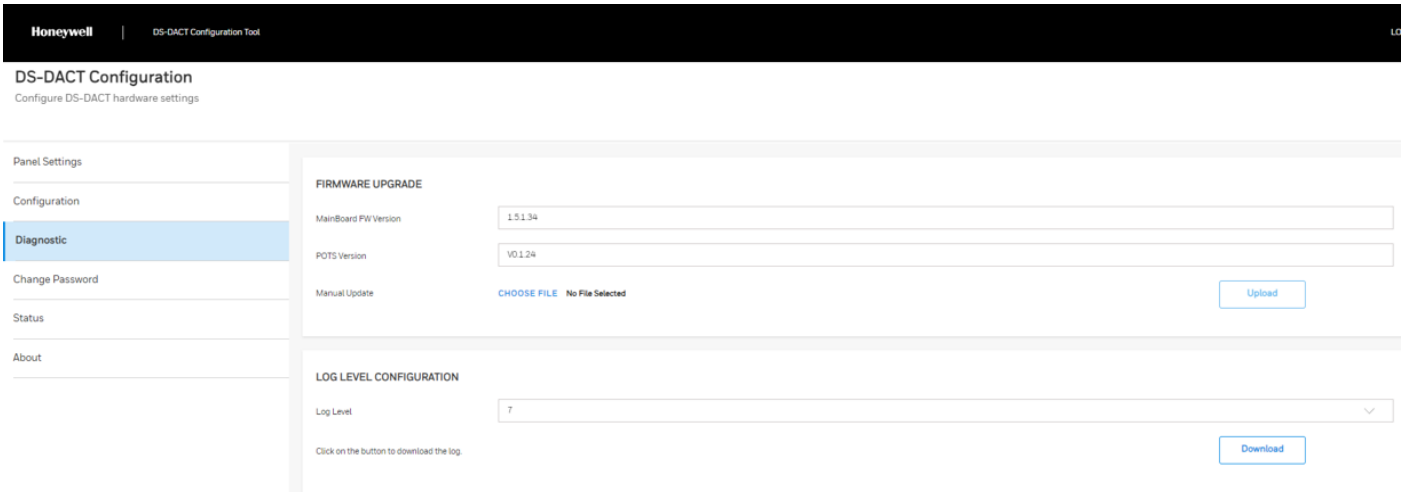
- Select Phone Line 1 or Line 2 or both
- Select Phone Line 1 Dialing Mode.
- Select Phone Line 2 Dialing Mode
- Receiver 1 Phone Number: Enter the dial-in phone number for Receiver 1.
- Receiver 1 Account Number: Enter the account number given for Receiver 1.
- Receiver 2: Select Used, if a second receiver is used.
- Receiver 2 Phone Number : Enter the dial-in phone number for Receiver 2.
- Receiver 2 Account Number: Enter the account number given for Receiver 2.
- Select Test time interval : select 1 hr or 2 hr or 4hr or 6 hr or 24 hr, defaulted to 6 hrs.
- Event Exclusion: Select to exclude the Supervisory Events
- Click Save
- Receiver number should be limited from 1 digit to 11 digits.



NOTE: If the configuration LED is not lit solid even after pressing the S6 switch the following can be tried to troubleshoot:
• Ensure there are no lose connection between DS-DACT USB port, USB Type C ethernet adapter, ethernet cable connection to the adapter, and PC.
• Restart the DS-DACT.

4.3 FIRMWARE UPGRADE

01. Go to Diagnostic page
02. In the FIRMWARE UPGRADE section, click Choose File.
03. Select the firmware image file and click Choose.
04. Once the chosen file is uploaded, click Upgrade.



NOTE: After firmware upgrade is completed, it can take a few minutes to reboot.

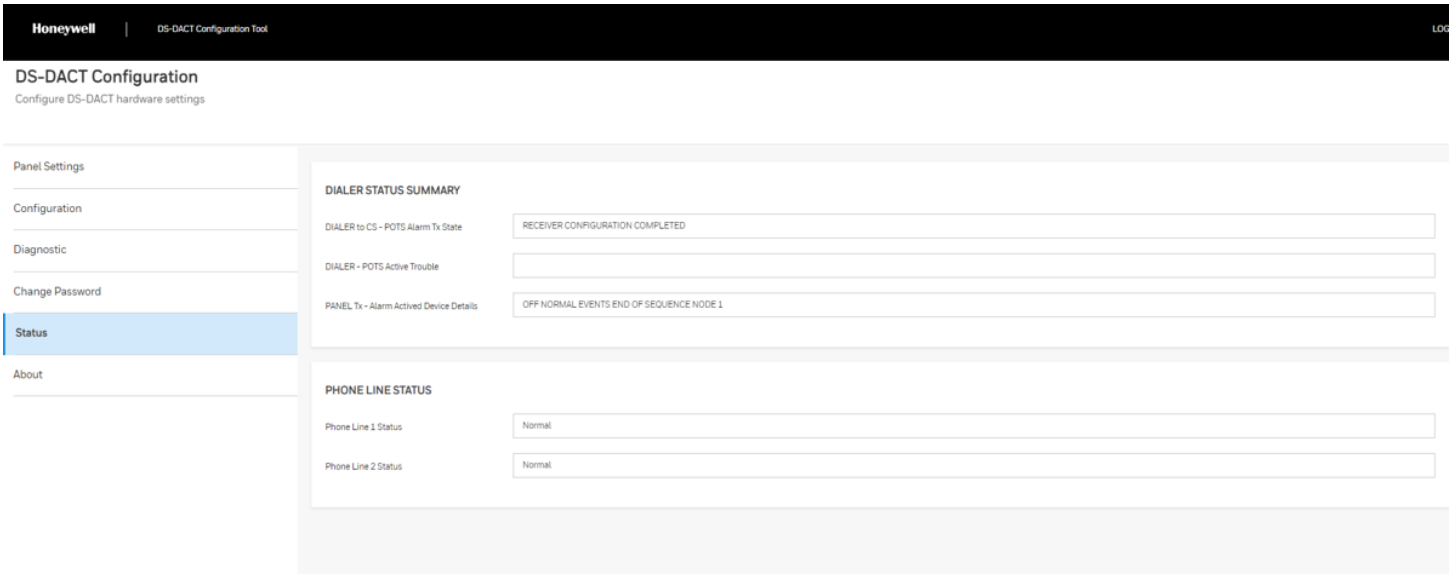
4.4 STATUS

Dialer Status Summary

It provides below real time status from the dialer, utilized for troubleshooting

- Event transmission status and details on the event transmitted to the central station.
- POTS Active troubles in the dialer.
- Alarm activated device details received from panel.

POTS line status - Status of the POTS line 1 and line 2.



4.5 SECURITY RECOMMENDATION

For Preventing Potential Risks

Security threats applicable to the networked systems include unauthorized access, communication snooping, viruses, and other malicious software agents.

UNAUTHORIZED ACCESS

Unauthorized access results from unsecured user name and password, uncontrolled access to the equipment, or uncontrolled and unsecured access to the network.

It results the following:

- Loss of system availability
- Incorrect execution of controls causing damage to the equipment
- Incorrect operation, spurious alarms, or both
- Theft or damage to the contents of the system
- Capture and modification or deletion of data causing possible liability to the installation site and Honeywell

USER ACCESS AND PASSWORDS

Observe the following good practices:

- The password has one numerical, one uppercase, one lowercase, and one special character whenever any user registers or changes the credentials.
- Enforce a password change periodically.
- Do not allow any dictionary words as passwords.
- Check passwords against known common weak password databases.
- Do not allow common and predictable passwords through they meet other requirements
    - For example: P@SSw0rd
- Passwords should be complex and not easily guessed and should not contain phrases used in common speech
- Do not use personally identifiable information as a password, such as social security numbers, addresses, and birth dates.
- Provide only the minimum level of access and privileges for each user.
- Ensure physical security of passwords. Avoid and warn against writing user names and passwords where they can be seen by unauthorized personnel.
- Periodically audit user accounts and remove and that are no longer required.

NOTE: When the user forgets the password, recover the password based on the above specified criteria, otherwise contact Tech support to reset to default password, once its reset to default password, it will allow user to change the password.

VIRUSES AND OTHER MALICIOUS SOFTWARE AGENTS

Malicious Software includes:

- Viruses
- Spyware
- Worms
- Trojans

These may be present in a computer using a Monitoring Station Software or in a USB pen drive, which is used to copy to computer.

The intrusion of malicious software agents can result in performance degradation, loss of system availability, the capture of, modification, or deletion of data including configuration and device logs.

USB devices from other infected systems on the network of malicious internet sites can also transfer viruses.

SECTION 5: REPORT SETTINGS

Using the CLSS Site Manager, the HON-DACT-DS settings are configured for report generation.

5.1 TO GENERATE CENTRAL STATION REPORT

01. Log in to *CLSS Site Manager*: https://fire.honeywell.com/
02. Select the site and building where the HON-DACT-DS is installed or add HON-DACT-DS customer and device details if not existing. Select the site and building where the HON-DACT-DS is installed.
03. Click **Feature Activation** and select DS-DACT for HON-DACT-DS.
04. Follow the on-screen instructions to generate and download the central station report.

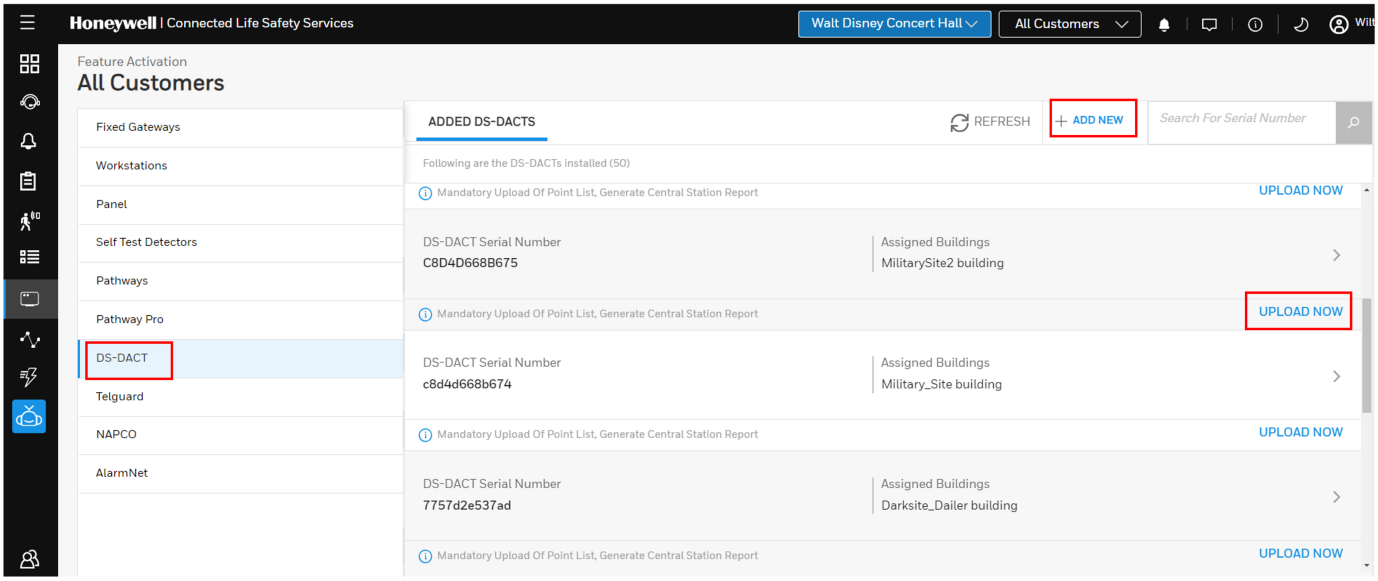


Figure 5-1: Central Station

5.2 REPORTING FORMATS

The HON-DACT-DS supports transmitting report in the Ademco Contact ID format only.

For specific zone identification, the HON-DACT-DS supports only Ademco Contact ID.

Use Ademco Contact ID for specific zone identification. For more elaborate details on the Ademco Contact ID reports, refer to Ademco Contact ID Format Event Code Descriptions.

5.3 PROGRAMMING FOR REPORTING

Programming involves specifying report details, monitored points, alarm routing settings, priorities, phone numbers, and account numbers.

5.4 ALARM ROUTING PATHS

Phone Line 1 and Phone Line 2

5.5 SUPERVISION INTERVALS

HON-DACT-DS Dialer Supervision interval: Supervisory test signal transmission is designed to transmit at test time interval 1 hr or 2 hr or 4 hr or 6 hr or daily which can be configured during the installation.

Supervisory test events are sent at configured test interval alternatively on both the pots lines if both the pots lines are installed, otherwise on single line when single line is configured. if one line is

Supervisory test signals are sent normal when protected premises is in normal condition, test signals are sent with trouble when the protected premises is in an abnormal condition.

5.6 AC FAIL TROUBLE DELAY

Transmission of an AC Fail trouble is delayed by 2-hours. This is not configurable.

5.7 POINT MAPPING

Point mapping enables you to group the monitored points and associate their point numbers. Once mapped, the HON-DACT-DS can collect related data of a specific point based on its group number and point number.

5.8 TELEPHONE LINE TESTING

Connect your telephone test set across a modular test adapter to test for a dial tone.

WARNING: DO NOT CONNECT TEST EQUIPMENT TO TRANSFORMER T1. DOING SO WILL DAMAGE THE TRANSFORMER.

5.9 PRIMARY AND SECONDARY POTS LINE CONFIGURATION

If the HON-DACT-DS is configured for two lines, it will always use Line 1 for dialing out both Account 1 and Account 2, unless there is a failure on POTS Line 1. If there is a failure, a test message will try Line 1 first and then Line 2.

APPENDIX A: ADEMCO CONTACT ID FORMAT EVENT CODE DESCRIPTIONS

This appendix describes the various Event Codes and their messages which are available for the Ademco Contact ID Format.

A.1 TRANSMISSION FORMAT BETWEEN DACT AND RECEIVER

The transmission string for the Ademco Contact ID Format is as follows:

ACCT MT QXYZ GG CCC

where

ACCT: Four digit account number (0 - 9, B - F)

MT: Message Type - 18 - Identifies trasmission as Ademco contact ID to the receiver at the Central Station

QXYZ: Event qualifier as well as Event code

Q = Event Qualifier, 1 = New Event, 3 = New Restore

XYZ : Event code, refer to the event code definition in the below table

GG: Group or Partition number (2 Hex digits 0-9, B-F)

CCC: Zone number (Event reports) or User # (Open / Close reports) (3 Hex digits 0-9,B-F)

Notes:

GGCCC = Address

Excluding A, we can support 7,59,375 addresses (15 power 5)

A.2 ADEMCO CONTACT ID TYPICAL PRINTOUT

A typical printout from a Central Station receiver (such as the Ademco 685) of alarm and trouble reports in the Ademco Contact ID Reporting Structure follows:

Date	Time	Rcvr/ Line ID	SSSS	QXYZ	GG	CCC
04/22	16:56	L01	1234	E114	00	001
04/22	16:56	L01	1234	E114	00	0E6
04/22	16:56	L01	1234	R114	00	001
04/22	16:56	L01	1234	R114	00	0E6

Notes:

01. L01 is an example of a Receiver/Line Card, showing which receiver and line card the message was transmitted to.
02. Q, which is the Event Qualifier for the reporting structure, is printed out in the report as an E for New Event or R for New Restore.

Example:

When a new Fire-Heat alarm is triggered on account number 1234, node 1, Loop 1, for a Device address 1, the receiver will display as below:

04/22 16:56 L01 CID ACCT 1234

+++ ACCT 1234 E/O EVENT=114 G=01 C=001

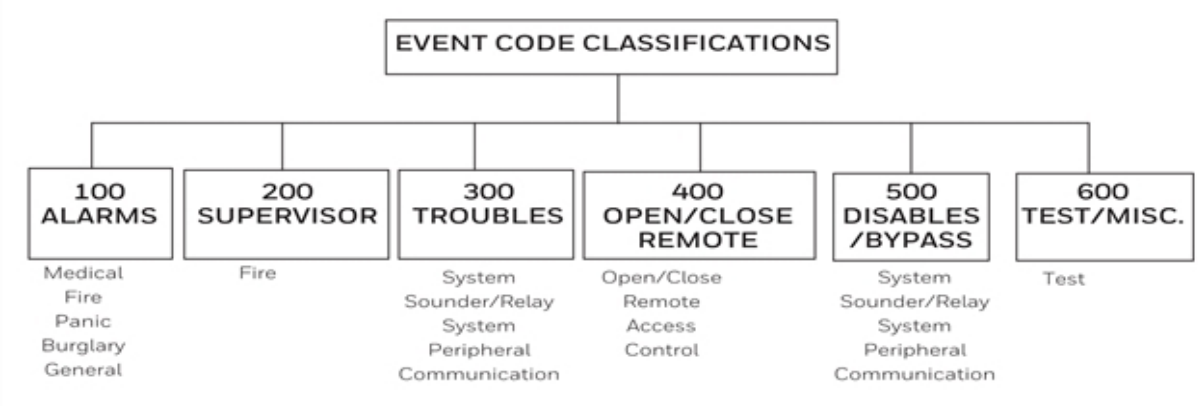


Table A.1
Event Code Definition

Contact ID	Message	Events on FACP that caused DACT to send signal
100	Medical Emergency	
110 Fire Alarm	FIRE - Fire Alarm - #	
111 Smoke	FIRE - Smoke Detector - #	
113 Water flow	FIRE - Waterfowl - #	
114 Heat	FIRE - Heat Sensor - #	
115 Pull Station	FIRE - Pull Station - #	
116 Duct	FIRE - Duct Sensor - #	
118 Near Alarm	FIRE - Near Alarm - # (CO or Fire Panel Alarm)	
130	Security Alarm	

Contact ID	Message	Events on FACP that caused DACT to send signal
140	ALARM - General Alarm	
151	ALARM - Gas Alarm	
162	ALARM - CO Alarm	
200	SUPER. - Fire Supervisory - #	MN Supervisory (High Priority) Supervisory Signal (Guard's Tour) MN Supervisory (Low Priority) Supervisory Signal (Equipment
202	SUPER. - Low CO2	CO Supervisory

Contact ID	Message	Events on FACP that caused DACT to send signal
300	System Trouble	General Fault
		Maintenance Urgent
		Mismatched Hardware Type
		Command Error
		Program Mode Activated
		Trouble Reminder
		Manual Evacuation Initiated
		Manual Evacuation Received
		Buzzer Supervisory
		Manual Mode Entered
		System Initialization
		Door Interlock Fault
		Alarm Signal
		Event Codes
		Tornado Alert
		Incompatible Firmware
		Non-Volatile Memory Error
		Non-Volatile Memory Battery Fault
		NAM CCBE PROG. LOST
		Memory Loss
		Panel Has Rebooted
		Kernel Corrupted
		Recovery Partition Application Active
		EEPROM Bad
		Configuration Data Invalid
		Configuration Data Corrupt
		No Configuration Data!
		Configuration Mismatched with Hardware
		Configuration is Loading
		Test Program Update
		Configuration Incompatible
		Change Service Tool Password
		Change Master User Password
		Password Database Corrupted
		options setup
		Time and Date
		checksum error
		External Power Supply Fault
		Over Current Fault
		AVPS. Trouble
		No Power Supply Installed
		Battery High Voltage
		Remote Sync Fault
		24VDC FAULT
		Mapping in Progress
		No Devices Found
		IR Enabled
		Local connection limit Exceeded
		Autolearn Failure
		Service Mode
		Point programming
		Access Door Open
		Workstation Fault
		Workstation Fan Failure
		Workstation UPS Fault

Contact ID	Message	Events on FACP that caused DACT to send signal
		Terminal Supervisory
		CRT Supervisory
		Link Protector Primary Status
		Link Protector Secondary Status
		Link Protector Not Present
		EBI Status
301	TROUBLE - AC Power loss	Mains Supply Failed
302	TROUBLE - System Battery Fault	Battery Discontinued
		Battery Low Voltage
		Battery Depp-Discharge
307	TROUBLE - Self Test Failure or Internal Components fault	Self Test Failed
		Program Memory (Firmware) Corrupt
		Internal RAM Error
		Corrupt Logic Equation
		External RAM Error
308	Configuration Mode	
310	Ground Fault	Earth Fault
		Earth Fault Switch Mismatch
		Ground Fault Port A
		Ground Fault Port B
		Ground Fault Positive
		Ground Fault Negative
		Network Ground Fault
313	Engineer Reset	
314	Internal Power Supply Fault	
316	Tamper Fault	
320	Sounder Trouble	Sounder Trouble
		Sounder No Answer

Contact ID	Message	Events on FACP that caused DACT to send signal
330	System Peripheral Trouble	Drill
		Auto Silence
		Fans ON
		Firmware Upgrade
		COMM update failed
		Charger Fault
		General Power Supply Fault
		Power Supply Cable Not Connected
		Power Supply Communication Failure
		Charger Switch Mismatch
		Security Trouble
		NAC Key Card Fault
		Fault Detected on Port A
		Fault Detected on Port B
		Output Driver Fault
		Network Failure
		Network Module Comm Loss
		NCM Piezo Battery Failure
		Network Mapping Limit Exceeded
		Invalid Node Type
		Display Node Limit Exceeded
		DAL Address Conflict
		DAL Download in Progress
		Display Comm Loss
		Lite-Conn Comm Fault
		Node Extra
		Municipal Circuit Supervisory
		LCD80 Supervisory
		Auxiliary Trouble
		Option Module
		TM4 Trouble
		TM4 No Answer
		TM4 Disabled
		Expander Configuration
		Audio Input Line Fault
		Audio Output Line
		Amplifier Hardware Failure
		Amplifier Limit Exceeded
		Amplifier Overcurrent
		Amplifier Failure
		Backup Amplifier Not Installed
		DVC Comm Loss
		Amplifier Trouble
		AUXIN Trouble
		DIGIN Trouble
		Fire Fighter Telephone Trouble
		Remote Microphone Trouble
		Local Microphone Trouble
		Local Phone Trouble
		Analog Output A Trouble
		Analog Output B Trouble
		Analog Output C Trouble
		Analog Output D Trouble
		Amplifier Supervision
		Audio Library Corrupted

Contact ID	Message	Events on FACP that caused DACT to send signal
		Audio Library Incompatible
		Fire Voice Trouble
		Fire Voice No Answer
		Phone Channel Limit Exceeded
		Primary Amp Hardware Fail
		Backup Amp Hardware Fail
		Analog Amplifier Trouble Bus
		Network Paging Channel Limit Exceeded
		Backup Amplifier Limit
		Primary Amplifier Limit
		Backup Amplifier Overcurrent
		Primary Amplifier Overcurrent
		Backup Amplifier Trip
		Primary Amplifier Trip
		Backup Amplifier Fail
		Primary Amplifier Fail
331	Loop/Circuit Open	Open Circuit
		Open Circuit on + Line
		Open Circuit on - Line
		AIO Bus Open Circuit
332	Loop/Circuit Short	Short Circuit
		Short Circuit A Side
		Short Circuit B Side
333	Expansion module failure	ANN-BUS PWR FAULT
		PRI ANN CLASS A
		PRI ANN CLASS A FLT
		LC CLASS A FAULT
		ACS Fault
		PRI ANN-BUS FAULT
		SEC ANN-BUS FAULT
		ANN-PRI COMM FAULT
		ANN-SEC COMM FAULT
335	Printer Paper Out	
336	Printer trouble	Printer Cover Open
		Printer Offline
		Printer Supervisory Fault
		Print Queue Full
337	Module External Power Loss	
350	Communication trouble	Communication Error/Transmission Fault
		Interface Fault
		High Communication Error Rate
		Communications Stopped
		Communication Lost
		Node Missing
		UDACT Trouble
		UDACT No Answer
		DACT Fault
		POTS Card No Answer / Missing
		POTS Call (Alarm Routing) Failure Primary
		POTS Call (Alarm Routing) Failure Secondary
		POTS Software Mismatch

Contact ID	Message	Events on FACP that caused DACT to send signal
351	POTS Line 1 Failure	
352	POTS Line 2 Failure	
372	POTS Line 2 Failure	
371	Isolation Fault	
372	Field Wiring Fault	
373	loop card troubles	Too Many Devices Detected
		Loop Continuity Test Fail
		Disconnect
		Loop 1-2 Communication Fault
		Loop 3-4 Communication Fault
		Loop 5-6 Communication Fault
		Loop 7-8 Communication Fault
		Loop 9-10 Communication Fault
		Mismatched Loop Type
376		Button Held

Contact ID	Message	Events on FACP that caused DACT to send signal
380	Sensor/Module Trouble	Software Fault
		Software Mismatch
		No Reply
		Duplicate Address Detected
		Incompatible Device Detected
		Invalid Address
		Unprogrammed Device
		Type Mismatch
		CO Sensor Fault
		CO Sensor Life Expired
		IR Fault
		IR Ambient Light Fail
		IR Saturation
		Aspiration Fault
		Aspiration Filter Fault
		Aspiration High Flow
		Aspiration Low Flow
		Aspiration Power Fault
		Aspiration Scanner Fault
		Aspiration Detector Fault
		Aspiration Configuration Fault
		Aspiration Time Base Fault
		Beam Blocked
		Beam Alignment Mode
		Beam Incorrect Position
		Beam Over Range
		Beam Under Range
		BeamLocalObscurationTestFailed
		BeamLocalTestFailed
		BeamPanelObscurationTestFailed
		BeamPanelTestFailed
		Simulated Test Failure
		Low Threshold
		Device Servicing Required
		Verify Count Over 20
		Low Temperature
		Initialization Mode
		No Thresholds Programmed
		Trouble 1
		Trouble 2
		Thermistor Trouble
		CO 6 Months of Life
		Device Trouble
		detector sensitivity
		Verify
		Output Fail
		Dirty
		Very Dirty
		Device Incompatible
		Wireless Mesh Formation in Progress
		Wireless Low Signal Strength
		Wireless Background Noise Limit Exceeded
		Wireless Mesh Not Formed
		Jamming
		Class A Fault

Contact ID	Message	Events on FACP that caused DACT to send signal
		Profile Missing
		No Wireless Device Connected
		MN Trouble
		Wireless Mesh Network Not Found
		Wireless Mesh Network Failed
381	Loss of Supervision	Loss of Supervision - RF Zone
		Loss of Supervision - RPM Zone
383	Tamper Needs Maintenance	
385	Smoke Detector High Sensitivity	
386	Smoke Detector Low Sensitivity	
387	Intrusion detector hi sensitivity	
388	Intrusion detector low Sensitivity	
389	Test Fail	
392	Drift Limit reached	
393	Maintenance Alert	
389	Test Fail	
392	Drift Limit reached	
393	Maintenance Alert	
410	UPDOWN Failure	
411	UPDOWN Request	
412	Download Success	
416	Upload Success	
421	Access Denied	
422	Access Granted	
500	Disabled Trouble	
520	Remote Sync Disable	
570	Device / Zone Bypass	Smoke Control Disabled
		Zones Disabled by Brigade
		Device Disabled
		Zone Disabled
		Two stage bypass
571	Fire Bypass	Alarm/Prealarm Devices Disabled
		Device Inhibit
604	Test alarm	
607	Walk Test	
627	NCM Sniffer Mode Activated	
754	Critical Process Alarm	
755	Mass Notification (MN) Signal	MN Alarm
		MNS Event
		MNS Override
		MNS Message
756	Abort Switch Activated	

Note: Tamper fault is transmitted from the dialer only when the dialer enclosure is open if the dialer is in power on state.

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