NOTIFIER®
by Honeywell

Notifier INSPIRE E10/E15 Fire Alarm Control Panels

Commissioning Instructions

CONTENTS

RELATED DOCUMENTS

For instructions, refer to:

- Notifier INSPIRE E10/E15 Control Panel Operating Manual (Part number HOP-338-9EN)
- Notifier IINSPIRE E10/E15 Control Panel Installation Manual (Part number HOP-138-9EN)

CONVENTIONS

Where appropriate, in this manual there are advisory warnings and cautions to remind you to consider safety at all times, especially when following the procedures described.

This symbol precedes a note that highlight important information that is normally hidden in the main text.

This symbol precedes information that warns of danger that may result in serious injury or death, also used as a caution to prevent damage to the equipment.

This symbol precedes information about compliance with standard(s).

ABBREVIATIONS

ASD	Aspirating Smoke Detector
CIE	Control and Indicating Equipment
C&E	Cause and Effect
CLSS	Connected Life Safety Services
CPU	Central Processing Unit
E10	Smaller 10U size Panel enclosure
E15	Larger 15U size Panel enclosure
FARE	Fire Alarm Routing Equipment
FAT	Feuerwehr-Anzeigetableau #
FBF	Feuerwehr-Bedienfeld #
FE	Functional Earth
FRE	Fault Routing Equipment
FPE	Fire Protection Equipment
HMI	Human-Machine Interface
IO or I/O	Input or Output
LAN	Local Area Network
LED	Light emitting diode (light)
MCP	Manual call point
OC or O/C	Open circuit
RFI	Radio Frequency Interference
SC or S/C	Short circuit
SELV	Separated Extra Low Voltage
PE	Protective Earth
PELV	Protected Extra-Low voltage
PSU	Power Supply Unit
TPP	Third Party Protocol

For use only in Germany and Benelux

Introduction

The purpose of this manual is to provide recommendations on procedures to follow to Commission a Notifier INSPIRE Fire Alarm Control Panel based System.

DO'S AND DONTS

DO NOT connect power until the Panel is ready to be commissioned.

Take the necessary precautions to prevent damage to static-sensitive components when handling Modules.

Any movement of a Module post first Panel power up will require:

- Wiring to be changed to reflect the Module movement to different slot location.
- Re-configuration and re-synchronisation with revised configuration sent to the Panel.
- Back up of panel configuration to CLSS Site Manager Cloud portal using CLSS Configuration Tool.

Preliminary Checks

Before going to Site:

01 In CLSS Site Manager Cloud portal create Site/Building and Add a Panel. Upload Panel configuration using CLSS Configuration tool. Generate Panel license .bin file.
Log into CLSS Site Manager Cloud portal https://fire.eu.honeywell.com/#/home using your company account.
See Licensing Notifier INSPIRE Panel Using CLSS user guide (4188-1125-EN).

> The Log in for CLSS Site Manager Cloud portal, CLSS App and CLSS Configuration Tool are the same. The same username and passcode is used for all.

02 To commission a Notifier INSPIRE Panel based system you will need :

- Laptop with compatible CLSS Configuration Tool software loaded.
- RJ45 lead or an alternative lead if only USB port is available on Laptop.
- Compatible Panel update firmware, a zipped image file on USB stick having a 'Honeywell' label.
  Ensure the USB stick was formatted with File System set to 'FAT32'. USB stick may come with File System to 'FAT'.
- Cause and Effect matrix spreadsheet.
- Labelling schedule for Zones, Devices, Panel, Modules, IO channels. Do not use < > & ' " in label text as they are not supported.

Note: Only the first 32 characters of a label is displayed on a ID3K panel in a mixed network of Notifier Inspire and ID3K panels.

- As Fitted Drawings that shows where fire alarm equipment is installed in building(s).

Before the first power up of a Panel:

01 Ensure all Modules are correctly fitted inside the Panel into their respective Slots in Module Carrier(s).

02 All internal wiring is properly routed, secured and connected.

03 Ensure loop wiring and external equipment circuits are checked.

04 Ensure the appropriate end-of-line devices are connected to I/O channel where required.

Modules and slot locations

It is required that the **Charger Module** is always fitted in **Slot 1** of the Module carrier and **CPU Module** fitted in **Slot 2** of Module Carrier.

IMPORTANT

	Module: Charger	Module: CPU	Modules: - Loop Opal 2X - COM Dual (FAT/FBF) - FIRE/FAULT routing - COM Serial (RS232/RS485) - I/O 4-CH - NET ID2NET	6/2-slots Module Carriers	Link module for Module carriers expansion	Termination Module for Battery & PSU cables	2-Rows Link Modules with power and Ethernet patch cables
Slot 1	✓ E10 / E15	X	X	E10 E15	-	✓ E10 / E15	-
Slot 2	X	✓ E10 / E15	X		-	-	-
Slot 3	X	X	✓		-	-	-
Slot 4	X	X	✓		-	-	-
Slot 5	X	X	✓		-	-	-
Slot 6	X	X	✓		✓ E10	-	✓ E15
Slot 7	X	X	✓		✓ E10	-	✓ E15
Slot 8	X	X	✓		✓ E10	-	-
Slot 9	X	X	✓		✓ E10	-	-
Slot 10	X	X	✓		-	-	-
Slot 11	X	X	✓		-	-	-
Slot 12	X	X	✓		✓ E15	-	-
Slot 13	X	X	✓		✓ E15	-	-
Slot 14	X	X	✓		-	-	-

E10 Panel range

E15 Panel range

E10 / E15 - panel range.

X - Not allowed in these slots of Module Carriers

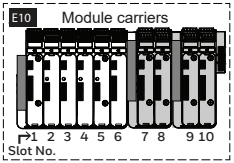
✓ Allowed to be fitted in these slots of Module carriers.

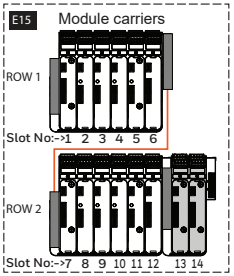
\- Not applicable

Module carriers

6 - 6-slots, supplied fitted

2 - 2-slots Extension optional





Loop circuits

LOOP SENSORS AND MODULES CHECKS

Each device has an associated instruction leaflet showing the correct interconnections for various applications, where necessary check the wiring connection to each device.

Survey the site to check and ensure devices are installed in their locations identified on 'As Fitted system wiring drawings' and according to the project requirements.

The Panel support devices incorporating internal isolators, providing the bases with the additional positive leg loop wiring connectors (type B501 AP) are used.

> System is approved to VdS2540 with 99 detectors + 99 modules, per loop using JYST ∅ 0.8 mm. Please refer to calculation tool for maximum limits depending on cable type, cable length and loop load.

The dual Loop Module OPAL (HOP-433-100) has the capacity to allow connection of up to 318 loop OPAL devices per analogue loop, consisting of up to 159 Sensors (detectors) and 159 Modules.

A loop can operate in legacy CLIP mode which can be activated through a dedicated license. The capacity of a CLIP loop is limited to 99 Sensors (detectors) + 99 Modules (other devices).

Loop wiring tests

NEVER use a high-voltage tester on the device loop circuit connected to the Panel.

Once loop devices are connected, no high-voltage testers, such as Insulation Resistance Tester may be used on the loop circuit. Low-voltage testers such as multimeter may be used. For information on approved loop cables see Notifier INSPIRE Installation instructions (HOP-138-9EN).

With isolators in each device the positive conductor of the loop will be open circuit.

In general

01 Check the continuity of each leg of the loop and measure the end-to-end resistance. We recommend that the system must be wired using 2-core cable only.

02 Check the continuity of the cable screen and measure end-to-end resistance, which must be a very low resistance value.

03 Check also there is no continuity between cable screen and loop +ve and -ve wires.

Loop checks using a Multimeter

If CLIP devices with isolators fitted are used then the positive conductor of the loop will be open circuit.

01 Where OPAL sensor is removed from base (B501 AP) the continuity is maintained. These bases have +leg terminals (+2 and +4) that connect automatically when the sensor is removed from the base.
The majority of OPAL devices are fitted with isolators.

Where loop modules and MCPs with isolator are used, link together terminals +2 and +4 on modules and terminals +3 and +4 on MCPs.
For CLIP devices, link out any isolators on the Loop by temporarily shorting terminals 2 and 4 on each isolator.
Check Notifier INSPIRE Installation manual (HOP-138-9EN) for compatible device types fitted with internal isolators.

02 Check the continuity of each leg of the loop and measure the end-to-end resistance.
The maximum resistance of the loop should not exceed the limits defined below. To check this, measure between Loop X IN ve- and Loop X OUT ve- with the loop disconnected physically from the Loop terminals at the panel, multiply the result by 2 and add the resistance of each isolator (range 0.1 to 0.13 ohms each). The cable capacitance should be less than 0.5uF. Check the values and ensure there is alignment with the values shown in the Global Loop Battery Calculator in CLSS Suite.

Verify that the measured resistance is less than:
40 ohms to ensure correct communication on an OPAL protocol loop.
With CLIP protocol loops verify that the resistance is less than:
40 ohms to allow dual device detection.
71 ohms if dual device detection is not required.

03 Using a meter with a diode test facility, connect the meter in 'reversed polarity' (+ve to loop -ve and -ve to loop +ve). The meter must indicate the presence of a number of forward-biased diodes in parallel.

04 Connect the meter in 'normal' polarity (+ve to loop +ve and -ve to loop -ve).
The meter must initially read low resistance but this must increase as the capacitor in each of the loop devices charges.
If the meter indicates the presence of a forward-biased diode then it is probable that one or more of the loop devices is connected in reversed polarity or the wiring is crossed.

05 If reversed device(s) are indicated in step 04, they may be located by successive halving of the loop (if the site layout makes this difficult, the affected section of the loop can be identified from the Panel fault messages after the links in the isolators have been removed and the system has been powered up).

06 Use a meter to check that there are no connections between each cable screen and:
the +ve conductor of the cable
the -ve conductor of the cable.

07 With the cable screen of the loop cable not connected to the earth bar in the control panel verify the cable screen has no other connection to the earth anywhere on the loop circuit.

POL-200-TS TOOL

If available use the POL-200-TS tool to check and test loop circuits before cables are connected to the Panel terminals. The POL-200 tool can be used to capture more detailed diagnostics as it works in both OPAL and CLIP protocols.

Connecting OPAL/CLIP devices

It is recommended that one end of the loop cable screen is earthed at the Panel to the Earth bar.

OPAL LOOP

When the OPAL loop wiring has been checked and found to be satisfactory, then connect the loop wiring to the Panel selected loop terminal block.

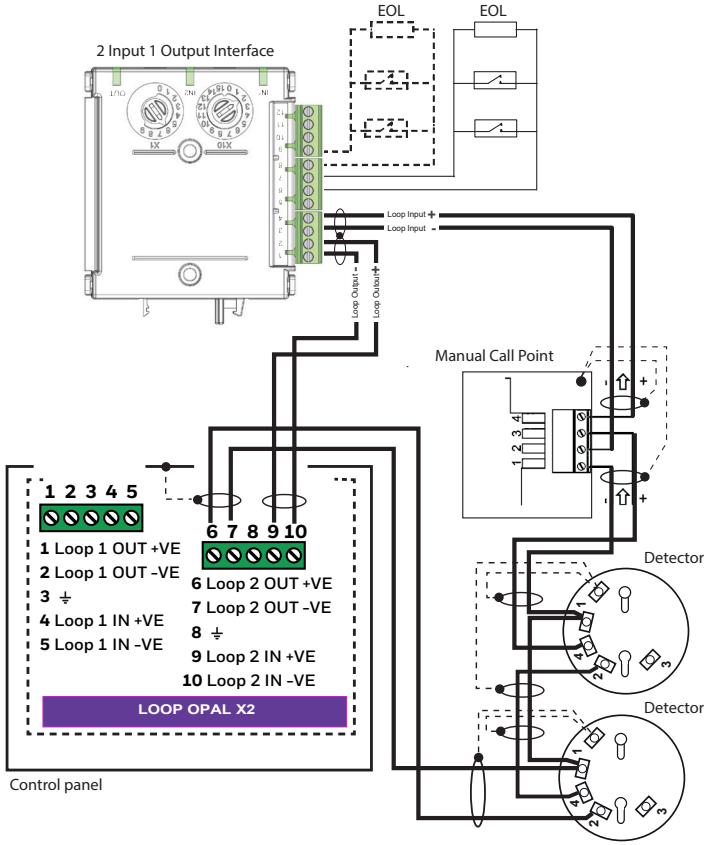
CLIP LOOP

When the CLIP loop wiring has been checked and found to be satisfactory then:

01 Remove the temporary links on the isolator units, loop-modules and MCPs, and then connect the loop wiring to the Panel's selected loop terminal block.

02 Once a loop circuit is connected to the Panel and on initial power up of the Panel it will check and indicate where the problem may still be located on the loop.

TYPICAL LOOP WIRING



Unused Loop circuit

If a loop circuit is not being used then check the box '☑ Not used' under 'Loop Card Configuration' in the CLSS Configuration Tool.

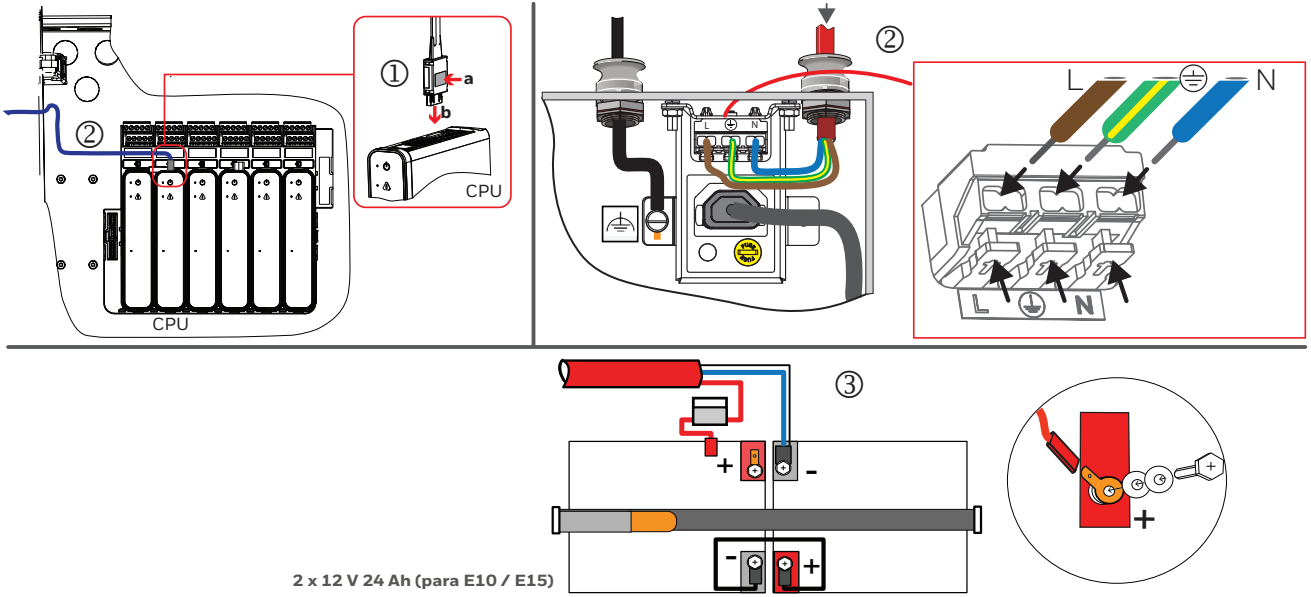
First Power up and initial settings

The first time power up of the Panel must be without the external wiring connected, but with the Mains supply and one tested Loop circuit connected, see 'Loop checks using a Multimeter' and 'Connecting OPAL/CLIP devices'.

> Ensure adequate precautions are taken to safeguard against inadvertent switching On of power to connected system equipment during panel power up, such as equipment connected to interface modules signalling a manned centre.

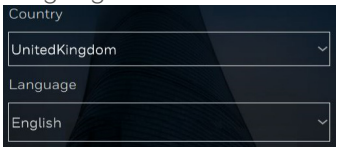
01 Connect the Loop wiring. Connect HMI cable from door to CPU ①. Press 'a' and insert into socket 'b'.

02 Connect the Mains ② and Battery ③ supplies to the Panel, see Installation manual (HOP-138-9EN).



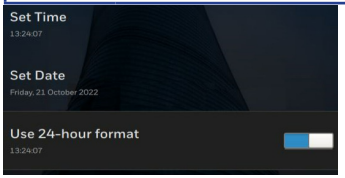
03 With the power applied to an Panel for the first time the display and indicators will momentarily turn on during this wake up process and will automatically enter a special Commissioning mode.
- The green 'POWER' LED will switch On and remains lit.
- If faults are present then the yellow **FAULT** LED is lit.
- Panel Buzzer will sound. Press the **MUTE / Silence BUZZER** button to stop the sound.

04 Select a **Country** and a **Language** from the drop down list. This ensures the Panel screens are in the chosen language.



05 Select **Next** and **Set Time** to the current hour, minute and second.

> The date and time set must match that shown on laptop having the CLSS Configuration Tool, that will be used to configure the Notifier INSPIRE system.

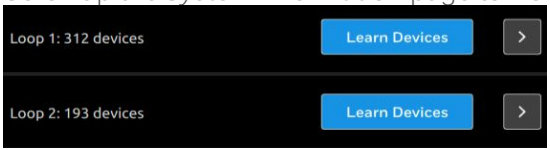


06 Select **Set Date** and set day, month and year.

07 Click the toggle switch to select time in 12 or 24 hour clock format and then select **Next**.

> During panels first power up and initialization it is not possible to view correct *System Information*.

08 Scroll up the *System Information* page to view loop-module, select ▽ down arrow to expand and view controls.



The number next to a Loop 1: xxx-shows how many devices were found, initially it should read '0' if the loop is being learnt for the first time.

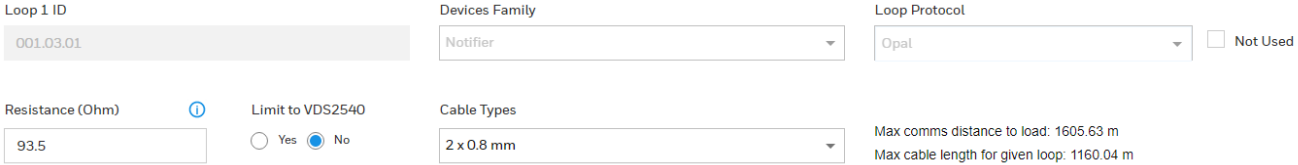
09 Before **Learn Device** is performed on a loop the panel must first be pre-configured using the CLSS Configuration Tool. By default the panel is licensed for OPAL loop 'Advanced Protocol' mode only and a CLIP loop or TC800 OPAL or CLIP loop license will be require.

a. Follow 01 and 02 as under heading 'Read configuration from Panel'

b. Select 'Settings' -> 'HMI Settings' and Under **Brand Type** select Notifier EN.

c. If the loop circuit is not being used then check ☑ Not Used, otherwise select loop cable Resistance, set limit to VdS requirement and select Cable type.

d. Then in 'Loop Settings' set a required :

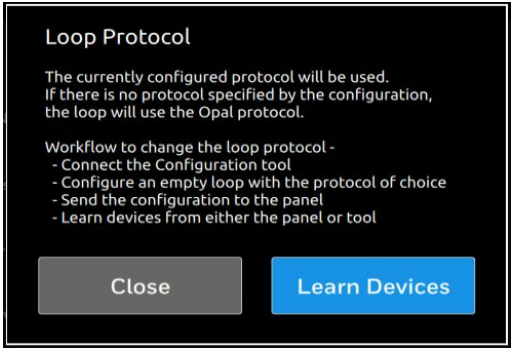


e Follow steps 01 to 04 as under heading 'Send configuration to Panel'.
On completion go to Learn Devices, see next page.

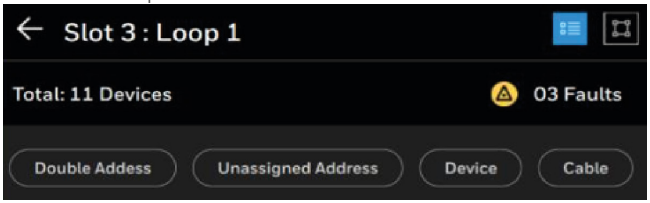
Learn Devices

The following procedure assumes the panel is powered up with initial settings and is ready to Learn devices.

01 Select **Learn Devices** to learn devices wired to the Loop circuit. Read the information in the pop up (shown below) and then select **Learn Devices** to acknowledge.



02 On completion of Learn select the right arrow > next to Learn Devices button to view faults status associated with the loop.



Faults on a learnt loop can result from conditions listed below:
- Mismatch between site design and wiring.
- Wiring faults
- External conditions, i.e. proximity of a strong RFI source having an adverse effect on the Panel.
- The failure of a Module and / or PSU.
- Incorrect wiring at the device(s)

03 Read the fault messages and take necessary action to rectify loop faults, see also 'Messages and their Meanings'. Select **Done** on completion. If there are no faults then go back <- to *System Information* page.

04 Repeat steps 01 to 03 if loop fault(s) were rectified.

05 Repeat steps 01 to 04 and **Learn Devices** of the next Loop until all the Loops are learnt.

Typical faults and remedies

Fault	Remedy
Open circuit fault on loop was reinstated but the panel still showing a fault.	A latching fault can be cleared by pressing the RESET button.
Two devices on the loop were given the same address, however at the panel no fault is reported.	Find the devices with blinking yellow LEDs. These are the devices having the same address. Inspect the device and rectify address conflict. Check with as fitted drawings to determine correct address.
Device set to address 0	View UNASSIGNED screen to determine there is a fault on the loop. Then check all the affected loop devices, find and rectify device having address 0.
A **Learn Device** on High power AV Devices # will be identified as legacy non-high power devices.	Manually delete and add the High power AV device using the CLSS Config. Tool.

- NFXI-BSF-WCS, NFXI-BSF-WCH, NFXI-BF-WCS, WxA-yC-IO2 and WxL-yC-IO2

CLSS Configuration Tool

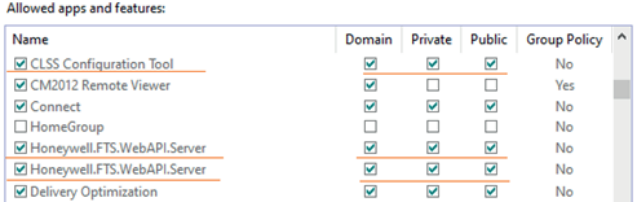
It is important to note the **Log-in** and passcode used for CLSS Configuration Tool, CLSS Site Manager Cloud portal and CLSS App are the same.
The Tool software is accessible to registered users via website: https://hwll.co/HOP-431-100

01 Download the zipped CLSS Configuration Tool software and save it at the Laptop.

02 Double click on the zipped file and follow the instructions on screen to install the software, you will need administrator rights to install the software.

03 Connect your Laptop to the internet and check to ensure VPN is disconnected.

04 Open the Tool and login using your CLSS account log in (name@honeywellcloud.com) and passcode.
Note: If you are not able to login to the Tool, Go to Firewall settings > allowed apps and features > Click on the checkboxes for CLSS configuration Tool and Honeywell.FTS.WebAPI.Server. Restart the Laptop and try login to Tool.



05 After login you should select Tool language setting, select and then select the required language from the drop down list. Close the Tool and open again to apply the language.

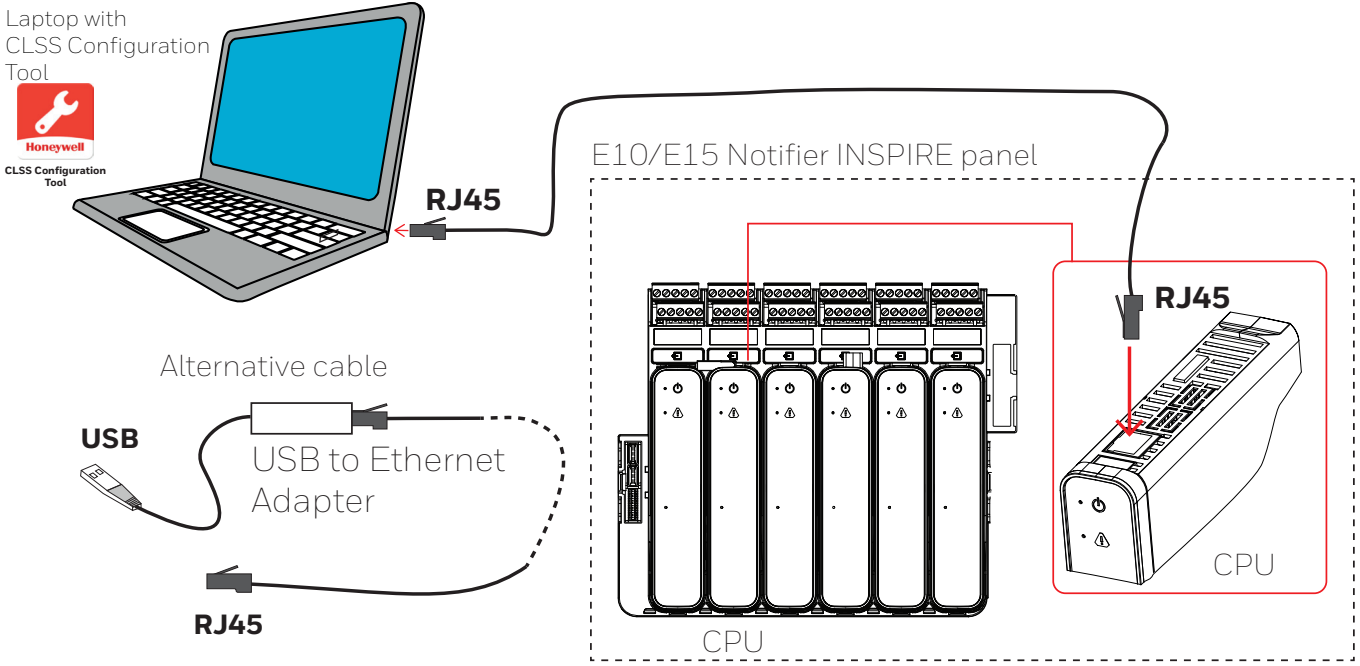
06 Select the previously created Customer and Site in CLSS Site Manager Cloud portal. Note it might take time for the Site data to appear in the Tool. If it does not automatically appear, click Add-Site and the new project should be visible in the list.

07 Select the required Customer and Site. Now you are ready to connect the Tool to **Add Panel(s)**.

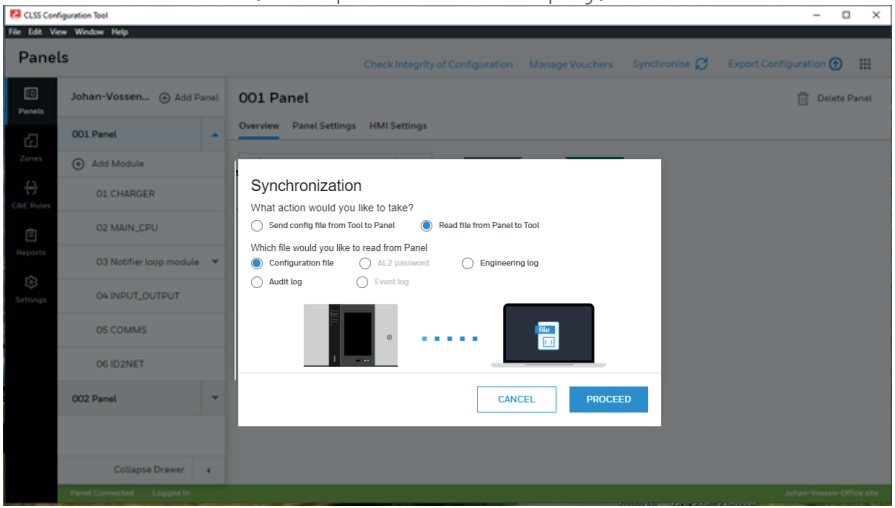
Read configuration from Panel

Assuming Tool is running on laptop and the dashboard shows the Customer Site and Panel Added in the Tool. Ensure the Modules on the Tool reflect Modules installed in the Panel.

01 Connect the LAN-cable to the Laptop and Panel CPU.



02 Ensure a Panel is created in the Tool. Check VPN is disconnected at the Laptop, next select **Synchronise** on the Tool (top right). When the Tool is connected to the Panel, the below screen will pop up. The green bar at the bottom of the screen confirms the Tool is connected to the Panel. Also it will bring the Panel to Access level 4 status (see top of the Panel display).



03 Select ⦿ *Read file from Panel to Tool* and then select ⦿ *Configuration file*.

Select **PROCEED**. A pop up will appear to show 'Panel discovered and successfully imported the configuration data' message. Select **OK** to close. Check the Tool has captured the loop device data and also the default configuration.

Generate Default configuration

The following procedures assume all the panel loops have been learnt and the panel is ready to have a default configuration to allow detection of fire and site wide alarm. Ensure panel remains connected to the Tool.

01 If a default configuration is required then select **C&E Rules** and the select **One In All Out**. With this selection a Fire event in any Managed Area will trigger an Evacuate in all Alarm Zones and Activate all Control Zones. Go to section headed 'Send configuration to Panel' and select 'send configuration' only to apply the default configuration.

> ⚠ Selection of **One In All Out** will overridden any previous configuration of C&E held at the panel.

WHAT IS A DEFAULT CONFIGURATION?

The Default Cause and Effect (C&E) configuration is:

- All detection devices on Panel loops are placed in Detection Zone 1.
- All alarm devices on Panel loops are placed in Alarm Zone 1
- All Interface Inputs are placed in Detection Zone 1, the inputs are interpreted as a Fire inputs.
- All Interface Outputs are placed in Control Zone 1

When a detection device goes into a fire condition then it will:

- Activate an alert signal in Alarm Zone 1 and
- Activate Control Zone 1

Also in Normal condition the basic faults in the system are detected and displayed at the Panel.

Update Panel Module firmware

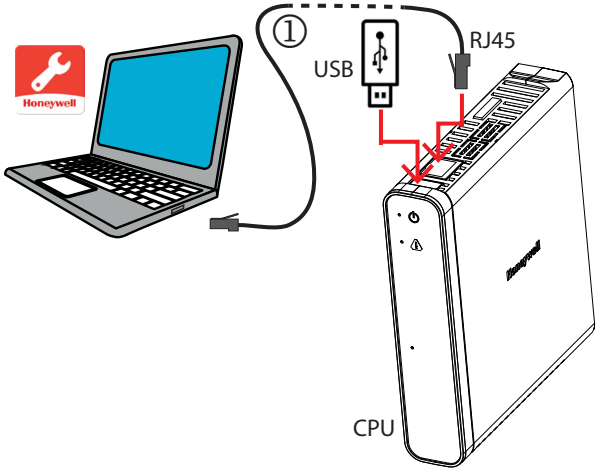
Ensure the panel has the latest firmware that is compatible with a version of Tool software being used to configure the panel.

At the panel click or and select *Information* to check the panel firmware and then at the Tool select Tool->User to check the Tool software.

You will need a blank USB memory stick, with volume label HONEYWELL having zipped image file to update Modules firmware. Ensure the USB stick was formatted with File System set to 'FAT32'. USB stick may come with File System to 'FAT'

01 Open the door on the Panel to access the CPU Module, which is located in Slot 2.

02 Run the compatible version of CLSS Configuration Tool on your laptop and sign in, find the required Site and select **GO TO SITE** and select Panel.



03 Connect the RJ45 cable end to laptop RJ45 port and the other end to CPU RJ45 port. An alternative cable is required if your laptop has only USB port.

04 At the Tool select  **Synchronise** and observe Panel is at ACCESS LEVEL 4.

05 At the Panel click  or  and select **Update.** Insert the USB memory stick with update software into the CPU Module's USB socket.

06 Select the required Panel image file on USB stick and then follow the Panel's on screen instructions.

07 The Panel will automatically reboot once all the Modules firmware are updated.

08 After the Panel has re-booted check the intended firmware was updated at each Module. With ACCESS LEVEL 2 code click  or  and select *System Information*. Ensure firmware versions displayed are correct for each Module.

09 Any latching faults displayed can be removed by pressing **RESET.**

10 Remove the USB-Stick from CPU USB socket.

11 Return to ACCESS LEVEL 1.

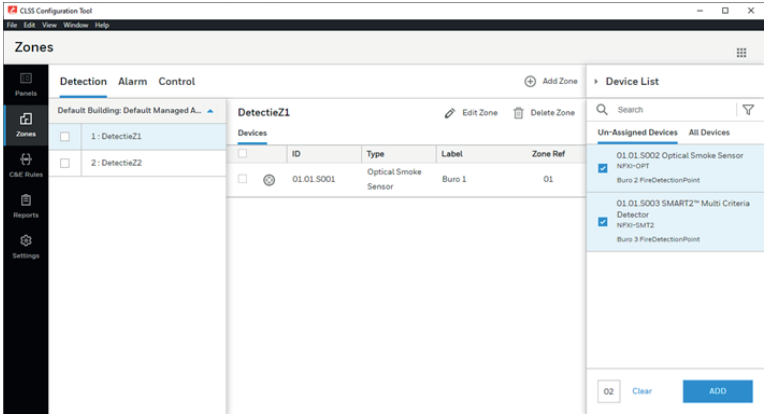
Configure the Panel

The CLSS Configuration Tool can be used off line without the need to connect to the internet for configuring a Site / Building / Panel.

01 Select the  icon on the left and select a **Panel** to configure.

02 Edit the configuration:

- Check Panel number is correct.
- Go to **HMI Settings** tab and decide if panel is for indication only. A networked system will have Events and Controls set to ensure events can be viewed and control is available from defined panels. Select 'Events' and building, managed area, event scope and mandatory outputs required and select ADD. For 'Control' select Building and Areas.
  'Override panel settings' and enter maintenance contact name and phone number plus upload a logo.
  Select 'Country Standard and Display Language' is matching the chosen licenses.
  Select with or without Zone indications.
  Decide on display mode of Zone or Device.
  Check 'Lamp Test' feature is at AL1 by default for NL region only and for all other regions it is at AL2.-
- Enter name to describe Modules and edit settings.
- Create Zones. Note there are 3 types of zones by default:
  a) Detection Zones for all detectors and call points or alarm inputs.
  b) Alarm Zones for all alarm devices (Sounders, strobes, outputs driving AV).
  c) Control Zones (control inputs or outputs)
- Edit zone properties for each Zone type and select ADD.
  Note: Only the first 32 characters of a label is displayed on a ID3K panel in a mixed network of Notifier Inspire and ID3K panels. Do not use < > & ' " in label text as they are not supported.
- Select a Zone and then Select **Device List** located on the right.
  Select the required devices for this zone in the **Un-assigned devices** list and click **ADD**.
  Make sure all devices are assigned to a zone, if not this will be reported by the Panel as 'Configuration Invalid'. This error will also have been spotted by the Tool during Integrity Check, before the configuration was sent to the panel.

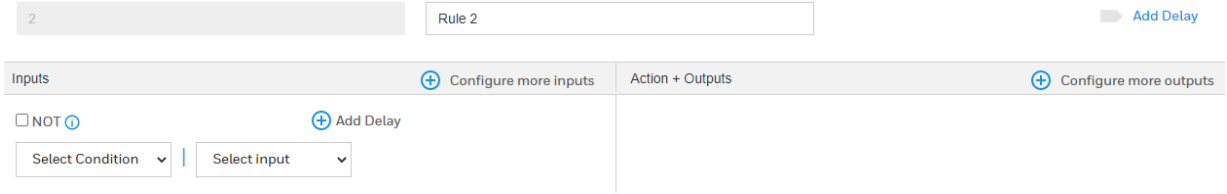


- Create Cause and Effect control matrix, Select **C&E Rules**.
  a) Select **New Rule** located on the right.
  b) Enter required rule equations
  Each rule may have more than one input and output line action.

A detection Zone for German Country setting:

- The tool allows edit of detection Zone reference number.
- Duplication of detection Zone number is not allowed.
- A maximum of 32 detectors can be placed in a detection Zone, but there cannot be a mix of detectors with Germany style DKM manual call points.
- DKM manual call point must be placed in a separate detection Zone.
- A maximum of up to 10 DKM manual call points are allowed in a dedicated detection Zone, which cannot have a mix of other devices in the same zone
- Each rules may have more than one input and output line action.

Zone and reference are used in other countries like Belgium, they are based on ID3K network zone.



The Tool automatically saves the configuration, however some settings will require Save button to be selected.
More detailed information can be found in (4188-1124-EN) CLSS Configuration Tool User guide.

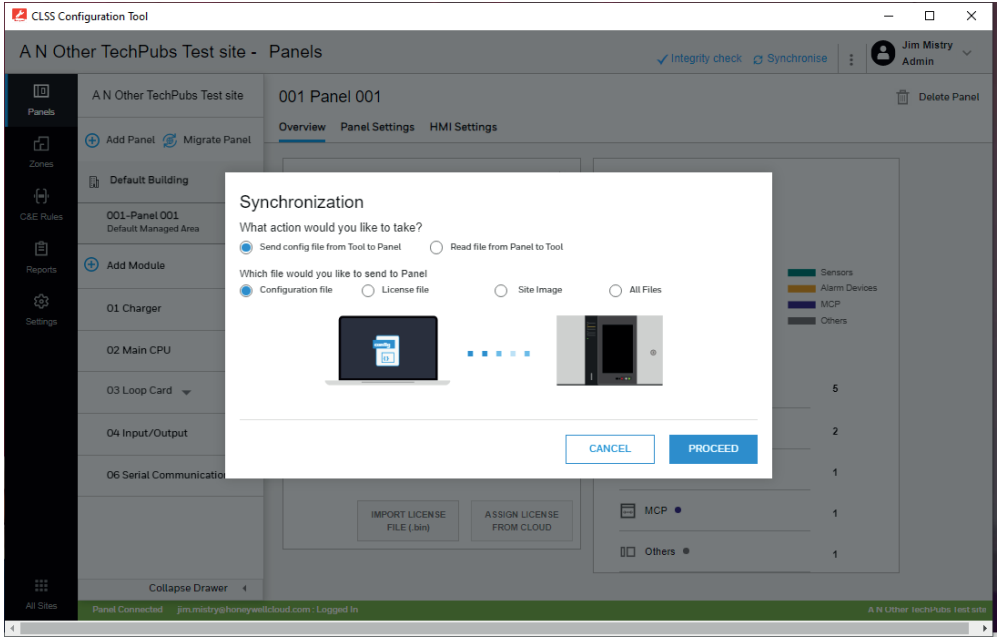
Send configuration to Panel

The following steps assume the C&E is configured at the tool and Integrity Check warning or error messages were cleared and the configuration file is ready to be sent to the panel.

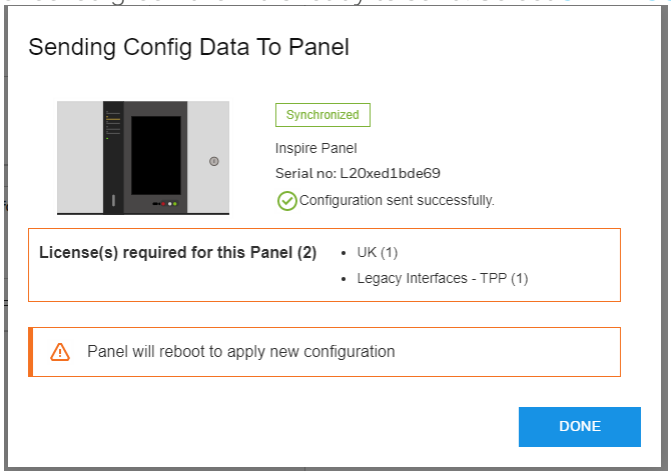
01 Connect the Laptop (with Tool) to the Panel. Ensure VPN is disconnected.

02 Select the correct Panel number for upload.

03 Select **Synchronise** and note the Panel is at Access level 4. Select a panel to configure and click **SYNC**.



04 Select ◉ *Send config from Tool to Panel* and further select ◉ ***Configuration file***, ○ *License file*, ○ *Site Image* or ○ *All files* and then click **PROCEED**.
The License file must be saved to location C:\Users\xxxxxx\LicenseFiles.
Ensure a site image photo is loaded in the tool under HMI Settings -> Site Images before it is sent to the panel
Select a Panel to configure and then select **GENERATE CONFIG**. Once the configuration file is created and checked green then it is ready to send. Select **SEND CONFIG**.



The Tool will display successful transfer of configuration files, if there are Licenses required then this will be indicated here, select **DONE** when finished.
The Panel will automatically reboot and apply the sent configuration.

05 After this you can test your Panel. A fault message 'Missing License' will still be there until the correct CLSS License file with the features used by the panel is sent to the Panel. Refer to the 'Licensing Notifier INSPIRE Panel Using CLSS guide' (4188-1125-EN) for information on how to create a license .bin file.

License Details

IMPORT LICENSE FILE (.BIN)

See section headed ‘Import license File using Off-line .bin file’ in CLSS Configuration Tool -User Guide 4188-1124-EN.

ASSIGN LICENSE FROM CLOUD

See section headed ‘Assign License from Sire Manager Cloud portal with On-line Licensing’ in CLSS Configuration Tool - User Guide
4188-1124-EN.

Diagnostic Information

You can view device and loop status and performance.

01 At the Panel click  or  and select 'Diagnostic Information'.

02 Enter access level 2 code and select ↵.

03 Select 'Diagnostic Information'.

04 You may select 'Device Status' or 'Loop'.

DEVICE STATUS

You can use the filters to home into specific device status and read values. Information given about a selected device includes device loop voltage, serial number, batch number, implementation id and firmware revision.

Additional information is displayed is dependent on the device type. The diagnostic information displayed may include device type, time and date of diagnostics, device state, processed photo data, raw photo data, static temperature, rate of rise temperature and isolator status.

LOOP STATUS

This is information about the loop status and how it is performing. You can capture diagnostic details like hardware revision, Loop Resistance on 0V and +ve line, Loop IN and Out voltages and view active status of VOpto. You can view the Polling and Presence Matrics of each device. The Polling provide good and bad status of each device poll and Presence provide Added or Missing status of each device.

Add / Change / Delete devices

If devices are to be physically Added, Deleted or Changed on a loop after commissioning of the Panel, such as for example when additional devices are wired to the loop, existing devices are removed from loop wiring or device type replaced with a different type from that originally installed on the loop, then follow these procedures:

01 Disable the Zones associated with the loop devices, ready of loop disconnection to avoid occurrence of device fault events on the system.

02 At the Panel, disconnect respective loop connector from the backplane.

03 Proceed with installation work.

04 Reconnect loop connector to backplane.

05 Open the Tool and ensure RJ45 cable is connected to CPU, select the relevant loop and click **LEARN DEVICES**. This will allow added, deleted and changed devices to your existing configuration, see CLSS Configuration Tool manual (4188-1124) for information on **LEARN DEVICES**.

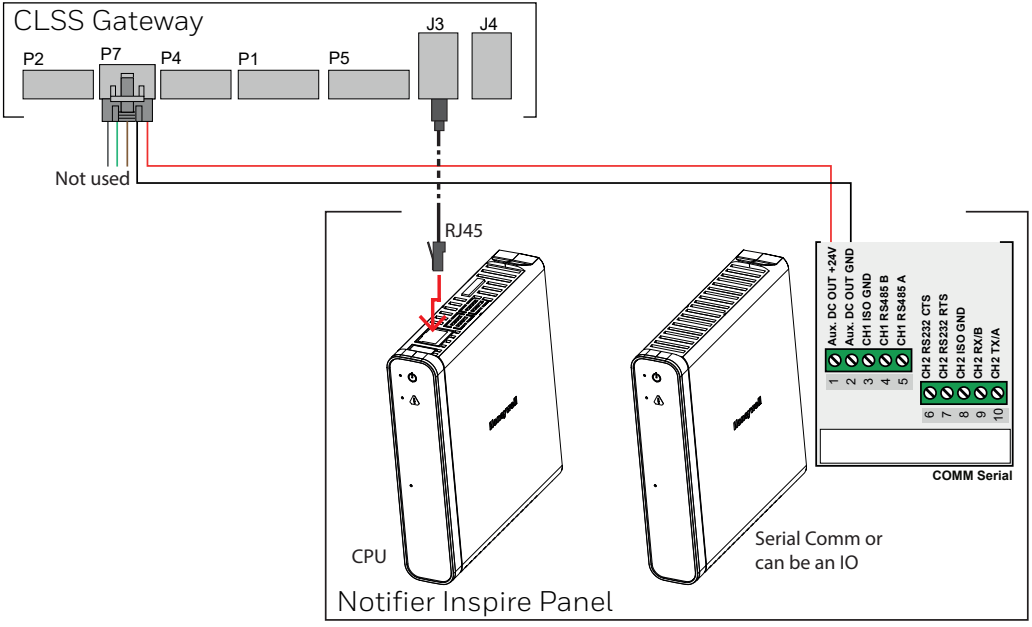
Do not use the default configuration on a preconfigured panel as using it will wipe the panels configuration and return it to the one in all out ~~Default~~ configuration.

06 Configure the added and replaced devices.

07 Finally, re-send the configuration to the Panel, see steps 03 and 04 under heading ‘Send configuration to Panel’.

CLSS Gateway connection

The CLSS Gateway needs a 24 V power supply from the Serial Comms. Module or the IO module in the Notifier Inspire panel or from an external source as long it has a battery back up. The Gateway needs to be configured as enabled for use. Once the Notifier Inspire EN panel is upgraded to 1.2.x then its expecting communication via the Ethernet link between Panel CPU and CLSS Gateway. The CLSS Gateway firmware is compatible with Notifier Inspire EN panel firmware.



Test the system

TESTS

The standalone system must now be tested to ensure events are displayed at the panel and alarms operate to site and country specific requirements, also refer to project requirements for system test information.
More information can be found on how events are displayed and what system controls are available for the events, see Operating Instructions (HOP 338-9EN).

DEVICE DISCOVERY

The Device Discovery feature locates each device at its installed location, this should be exactly as per 'As Fitted Wiring Drawings'. To operate 'Device Discovery' the Panel needs to be at ACCESS LEVEL 3 / 4.

01 At the Panel select  or  and **Device Discovery**, enter ACCESS LEVEL 3 code.

02 Search the list and locate the device that needs to be found. Select the adjacent **Start** button.

03 Look in the general area where the device is installed. The device will give a flashing LED indication.

04 Visually inspect the device condition and the general area where it is installed. Where required, assess the area condition to determine suitability of device use.

05 At the Panel in the Device Discovery list select the adjacent **Stop** button of the found device.
The Panel may time-out and require you to perform steps 03 and 04 again to find the device again.

06 Continue search of other devices by following steps 03 to 07 until all the devices on a loop are found.

07 Repeat the above for other loop circuits.

ENABLE / DISABLE PANEL BUZZER

The Panel buzzer may be switched Off during the commissioning, this is possible with panel at ACCESS LEVEL 3/4.
The buzzer is automatically re-enabled for normal operation post commissioning, which ensures correct audible sound is given with events.

01 At the Panel select  or  , select Settings and Buzzer Settings, enter ACCESS LEVEL 3 code.

02 Then select Enable or Disable. The buzzer will not sound with events if it is Disabled.

03 Notice the Disable LED is lit.

Testing Self Test Detectors using CLSS

See document titled “Notifier Self Test guide V3” for step by step guidance on Notifier Self-Test.

The self-testing of optical sensor of a self test device is made possible by activating a paraffin aerosol (smoke) generator. A controlled amount of smoke is generated and then directed into the optical scatter chamber by a variable speed fan. The self-testing of heat sensor in the device is made possible by heating the thermistor.

SERVICE MODE

The panel’s ‘Service Mode’ is used with CLSS App to record tests and checks performed on self test devices as well as on non self test devices. To activate ‘Service Mode’ the panel will need to be at Access level AL3 or higher.

TEST PLAN

A test plan is used to allow devices on Inspire loop to be checked for test and inspection. Self test devices can be functionally tested and visually inspected, while non self test devices can be manually tested and inspected with test status being recorded on CLSS App for future reference. Tests on selected devices can be stopped and resumed as required.

TEST AND INSPECT SELF TEST DEVICES

Prerequisites

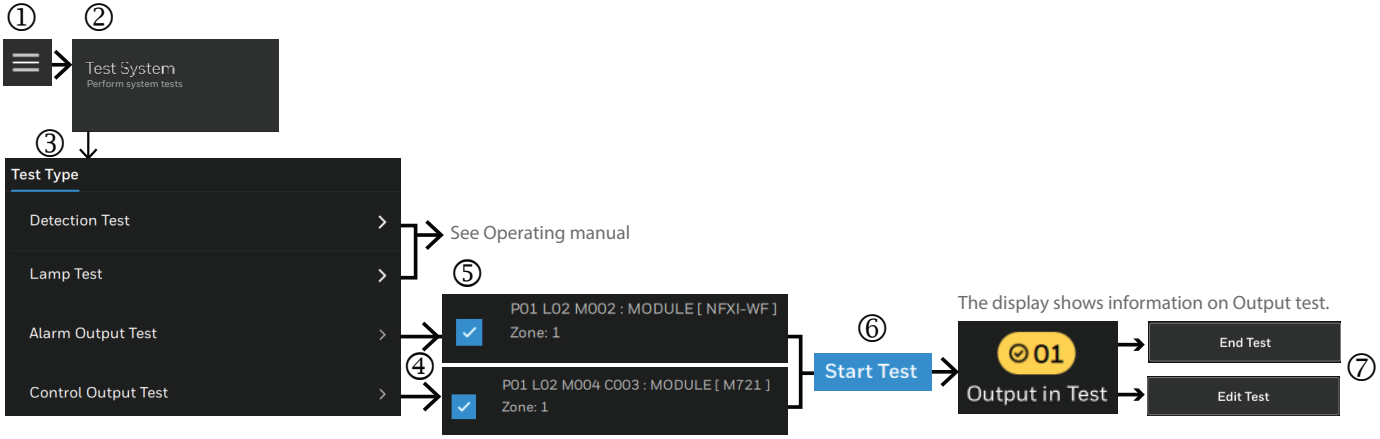
- You will need ACCESS LEVEL 3 passcode to access ‘Service Mode’.
- Check Notifier Inspire panel has Release 1.2.1 firmware, see heading Compatibility.
- Check the CLSS gateway has compatible firmware, see heading Compatibility.
- Check to ensure the CLSS Gateway is connected to the RJ45 port of the CPU module.
- Ensure Log-in is known to allow features of CLSS Site Manager Cloud portal/CLSS App to be used to create a test plan for a Customer Site, Building and panel. CLSS App is used to initiate self test.
- Ensure the export database from CLSS tool is imported into CLSS Cloud, This permits selection of devices for test using CLSS App during site maintenance.

Testing Outputs

The Alarm and Control outputs in the system can be individually tested. Test can be performed on alarm sounder, strobe and interface output that control third party equipment.

Take necessary precaution to safe guard against inadvertent switching of third party equipment controlled by fire alarm system.

Given you are at Access Level 3/4 you can test Alarm or Control outputs by following STEPS:
①–>②–>③–>④–>⑤–>⑥–>⑦.



Alarm Simulation

The CLSS App is used to test the Cause and Effect of an Notifier Inspire system.

> Ensure the affected persons are informed that the fire alarm system is being tested. Also manually disable outputs to external equipment such as to FPOs, FAREs and FBF.

01 At the Panel select  or  and then select 'Service Mode' and log in using ACCESS LEVEL 3 passcode and then check **Enable Beaconing** for self test and then select duration over which test remains active by setting **Session Timeout** from a range 1hr to 24hrs.

02 Select **Start Service Mode** and note the panel screen shows a *System in Service Mode* on a yellow banner. From here you can **Edit Timeout** or **End Service Mode** at any time. If you view other screens and the *System in Service Mode* collapses to the top of the panel screen and you can expand again the view by a tap on the **V** symbol located on the top middle of screen.

01 Log In to  **CLSS mobile App**.

02 At the dashboard click on **All Customers** and find the Customer, Site and Building from the drop down lists.
As an alternative select **'Perform Test and Inspect'** from the welcome screen and then select Customer, Site and Building.

03 Select an input to initiate a test simulation and START NEW TEST.
Note the CLSS Site Manager Cloud portal passes the commands through the Gateway and to the Notifier Inspire panel.

04 The panel shows an alarm from the relevant point, with red LED lit at the activated device as if it was a true Fire alarm or Technical alarm.

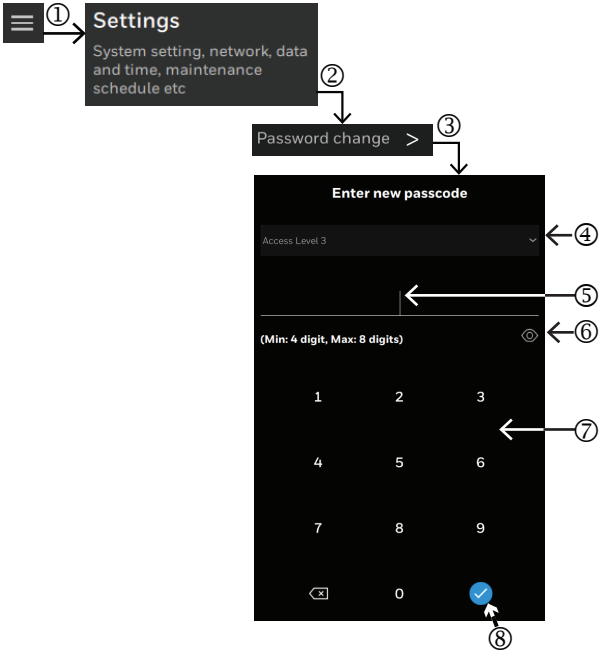
05 The CLSS App will receive the alarm and confirm action was performed.

06 The panel will execute all relevant control matrix lines of Cause and Effect.
The customer will be able to witness the activated outputs at the Panel HMI, CLSS Site Manager Cloud portal and in CLSS App.

07 You will need to RESET the fire alarm from the panel controls, you will need ACCESS LEVEL 2 passcode to operate the controls.

CHANGE AL2/AL3 PASSCODE

It is recommended the Access Level 2/3 passcode is changed to a unique one having between 4 and 8 digits.



How to change Passcode?

If at Access level 2 you can change Access level 2 passcode and if at Access level 3 you can change either Access level 2 / 3 passcode.

01 Select the Menu icon ① and select 'Setting' ②, and then log in as an Access level 3 user.

02 Select 'Passcode change' option ③.

03 Ensure *Access Level 2/3* ④ is selected and the cursor is giving a flashing indication ⑤.

04 You can see the entry of passcode by clicking on the eye icon ⑥.

05 Enter a new passcode that is between 4 to 8 characters long using the keypad ⑦..

06 Acknowledge the passcode entry by selecting the  symbol ⑧.

07 Confirm the passcode entry made, follow Steps 03 to 06.

08 Observe 'Passcode change successful' message. Select OK to acknowledge.

09 You will need to Synchronise Tool to Panel and then back up passcode change to Cloud

Commissioning other Equipment

Other external equipment interfaced to the Notifier INSPIRE system can be commissioned one at a time to site and project requirements.

Ensure adequate precautions are taken to safeguard against inadvertent switching on of power to external system equipment during commissioning.

Always power down the mains and battery supplies to the Panel before making any changes to external wiring to Panel terminal blocks.

01 Refer to the Project information on how third party equipment must be connected to the Notifier INSPIRE system, commissioned and tested. Also refer to the appropriate Module wiring instructions to identify the terminals for external cable connections, see Modules terminal markings and see (HOP-138-9EN) Installation Manual.

The RS485 communication cable used must be rated as suitable for up to 200mA in a short circuit condition.

02 Any fault message displayed at the Panel carry a meaning and possible action that a trained engineer can take to remedy the fault, see section headed ‘Messages and their Meaning’.

03 Any latched fault displayed at the Panel can be removed by pressing **RESET.**

04 To configure Modules refer to the (4188-1124-EN) CLSS Configuration Tool user guide. Then send the configuration to the Panel.

05 Test the external equipment to information provided by project.

06 Repeat steps 01 to 05 for the next Module connected to external equipment.

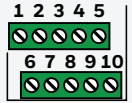
MODULES TERMINAL MARKINGS

Other system equipment must be connected to the panel and tested to site and project requirements.

Note: Do not use terminals 3 & 8 for loop cable screen, which must be connected to the Earth Bar instead.

LOOP OPAL X2

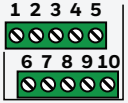
1 Loop 1 OUT +VE
2 Loop 1 OUT -VE
3 ⏚
4 Loop 1 IN +VE
5 Loop 1 IN -VE



6 Loop 2 OUT +VE
7 Loop 2 OUT -VE
8 ⏚
9 Loop 2 IN +VE
10 Loop 2 IN -VE

CPU NOTIFIER

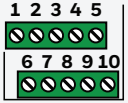
1 -
2 -
3 Relay Fire NC
4 Relay Fire C
5 Relay Fire NO



6 RS485 A
7 RS485 B
8 Relay Fault NO
9 Relay Fault C
10 Relay Fault NC

CHARGER

1 -
2 -
3 -
4 -
5 -



6 -
7 -
8 -
9 Temp. Sensor GND
10 Temp. Sensor Signal

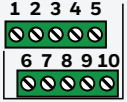
ID2NET NETWORK

1 -
2 -
3 -
OUT
4 RS485 #B Pin B
5 RS485 #B Pin A

6 -
7 -
8 -
IN
9 RS485 #A Pin B
10 RS485 #A Pin A

I/O 4-CH

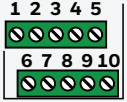
1 Aux. DC OUT +24 V
2 Aux. DC OUT GND
3 Channel 4 IN/OUT 2
4 Channel 4 IN/OUT 1
5 Channel 3 IN/OUT 2



6 Channel 3 IN/OUT 1
7 Channel 2 IN/OUT 2
8 Channel 2 IN/OUT 1
9 Channel 1 IN/OUT 2
10 Channel 1 IN/OUT 1

COMM Serial

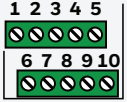
1 Aux DC OUT +24 V
2 Aux DC OUT GND
3 CH1 ISO GND
4 CH1 RS485 B
5 CH1 RS485 A



6 CH2 RS232 CTS
7 CH2 RS232 RTS
8 CH2 ISO GND
9 CH2 RX/B
10 CH2 TX/A

FARE / FRE

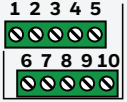
1 Aux DC OUT +24 V
2 Aux DC OUT GND
3 FARE - Activation OUT
4 FARE - Ground OUT
5 FARE - Acknowledge IN



6 FRE NC (energized open)
7 FRE C
8 FRE - Fault IN
9 Key Safe - Activation OUT
10 Key Safe - Ground OUT

FAT / FBF (Comm Dual)

1 UB1+
2 UB1-
3 SIO1+
4 SIO1-
5 -



6 UB2+
7 UB2-
8 SIO2+
9 SIO2-
10 -

Power up of Networked Panels

When powering up a network of Panels the recommendation is to start at Panel 1 (001). The following procedures assume each panel to be networked has been pre-commissioned and configured.

01 Check a Network Module is fitted in the **Panel.**

02 Connect Network wiring to the **Panel**, refer to (HOP-138-9EN) Installation manual.

03 Power up the **Panel**.

04 At the next **Panel** repeat steps 01 to 03. Continue power-up of next connected **Panel(s)** in a sequence one at a time until the Network loop is complete.

> The disconnection of any Networked Panel will cause 'No reply' at other networked Panels in the same Managed Area.

See 'Communication and Mapping failure' under 'Messages and their Meanings' section.
When a disconnected Panel re-joins the network then the status is updated automatically without any further intervention, allow few minutes for the modules and network to initialise.

> When a new panel is Added to an existing network of panels, then manually perform a RESET at any networked panel to get the new panel in synchronisation with all events in the system.

Network Configuration and Test

To configure a network of Panels you will need the Cause and Effect matrix at hand along with 'As Fitted Wiring Drawings' to use to configure Zones and associated with Managed Areas of Networked Panels.

01 Ensure Zones are associated with Building and Managed Areas and configured for each **Panel** at the Tool, refer to (4188-1124-EN) CLSS Configuration Tool user guide.

02 Ensure configuration is sent from Tool to each **Panel.**

03 Any network fault message displayed at the **Panel** carries a meaning and possible action that a trained engineer can take to remedy the fault, see section 'Messages and their Meaning'.

04 Once all the **Panels** are Networked together in a loop and are working, press the **RESET** button to remove any latched fault.

05 Test the networked system and ensure Fire/Fault events are displayed at the respective Panels and event control and display is correct in each Managed Area,

06 Ensure Cause and Effect behaviour are tested to site specific and local requirements.

Panel disconnection and reconnection

In a mix ID3K and Notifier Inspire panel network, if a panel is disconnected and subsequently re-joins the network, the status of the system is updated automatically across the network. On panel rejoining the network a manual **RESET** operation may be required to clear down latching panel faults.

Reports

AUDIT LOG REPORT

To read the latest Audit log file from the Panel at the Tool.

01 Connect Tool to Panel and select **Synchronise** and select a Panel and then **SYNC.**

02 Select ◉ *Read file from Panel to Tool* and then select ◉ *Audit Log*

03 Select **PROCEED** and wait for '*Audit Log file was successfully downloaded*' and select **DONE**.

04 Select  *Reports* and select Audit Log Report and then select **IMPORT AUDIT LOG**.

05 Go to the location **C:\Users\USERID\PanelLogs** and select **AuditLog_xxxxxxxxxxxx_....** file and **Open** the file. The box under **IMPORT AUDIT LOG** displays a scrollable list of Audit report. This data is used to analyse the behaviour of the system.

ENGINEERING LOG REPORT

To read the latest Engineering log file from the panel at the tool.

01 Connect Tool to Panel and select **Synchronise** and select a Panel and then **SYNC.**

02 Select ◉ *Read file from Panel to Tool* and then select ◉ *Engineering Log.*

03 Select **PROCEED** and wait for '*Engineering Log file was successfully downloaded*' and then select **DONE**.

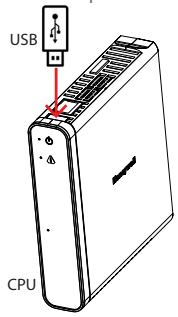
04 Select  *Reports* and then select **IMPORT ENGINEERING LOG**.

05 Go to the location **C:\Users\USERID\PanelLogs** and select **EnggLog_xxxxxxxxxxxx_....** file and **Open** the file. The box under **IMPORT ENGINEERING LOG** displays a scrollable list of Engineering report. This data is used to analyse the behaviour of the system.

TRANSFER OF LOG FILES AT PANEL TO USB AT AL2

You can transfer log files to USB stick using panel controls. This allows trained engineering end users having AL2 passcode to send passcode protected encrypted log files for ESD to forward on to Honeywell Technical support for analysis. This may useful where ESD can trained end users who can carry out this task without the need to goto site.

01 Fit USB stick to USB port on CPU module.



02 At the Panel select  or  , select **Transfer All Logs.**

03 Select **All Logs** or required logs: **Audit, Event or Engineering.**

04 Select **Transfer.** You will need to log in at Access level 2.

05 Enter an 8 - Digit passcode to encrypt and protect the log files transferred to USB.
Remove USB when the following message appears 'Log transfer complete, safe to remove the USB'.
Select **Done.**

NOTE: The 8-digit encryption passcode along with the files will be needed by Honeywell engineering support to decrypt and view the log file(s).

Maintenance

A log book should be used for recording day to day events in the system, it should be used to record service and maintenance work visits.

TEST PLAN

Ahead of a maintenance visit to a site use CLSS Site Manager Cloud portal and create a Test plan for your customer site, building and panel.

01 Log in to CLSS Site Manager Cloud Portal.

02 Select your customer site and building and select **APPLY**.

03 Select  **Check point** and use filter to customise view and select + CREATE TEST PLAN.

04 Select a~~n~~ new or existing test plan, then give the new plan a name.

05 Select  equipment to include in the test plan, then select **UPDATE**, a view of the equipment to be tested appears.

ROUTINE TESTING

In order to ensure that the system is fully operational it must be routinely tested in accordance with the requirements of EN54-14 where applicable or national code of practice and local requirements.

Device age report

Prior to a maintenance visit use CLSS Site Manager Cloud portal and generate a report on devices that need replacing.

01 As per steps 01 and 02 for TEST PLAN.

02 Select  **Report** and then select **Non-Regulatory.**

03 Select 'Device Age Report' and use filter search for devices to be replaced and those about to expire.

04 Select **GENERATE REPORT.**

05 During site maintenance use the report to identify devices that need replacing.

Device health report

Prior to a maintenance visit use CLSS Site Manager Cloud Portal and generate a report on devices to be checked.

01 As per steps 01 and 03 for Devices age report.

02 Select 'Device Health Report' and select **GENERATE REPORT.**

03 During site maintenance use the report to identify devices that need to be checked.

BATTERIES

As a minimum, replace the Panel batteries that provides power to the system every four years.
The battery units must always be disposed of in accordance with the battery manufacturer's recommendations and local regulations.

FAULT MONITORING AND RECTIFICATION

Where there is an active fault in the system which is displayed at the Panel, then this fault can be interrogated by a trained person. To assist in decision making as to the cause and solution, see section headed 'Messages and their Meaning'.

CLEANING

The Panel case may be cleaned periodically by wiping with a soft, damp lint-free cloth. Do not use any solvents. Before cleaning the touch screen ensure the Panel is at ACCESS LEVEL 1 and take care to use a clean cloth to clean the touch screen.

GENERATE BUILDING REPORT

On completion of site maintenance visit generate a reports of work and test status.

01 Log in to CLSS Site Manager Cloud Portal.

02 Select your customer site and building and select **APPLY**.

03 Select  **Check point** and use filter to customise view and select  Generate Building Report.

04 Select Building report select ‘Corrective action status’, File format and Date range.

05 View and check Device list and then select **NEXT**.

06 View and check Test status and then select **NEXT.**

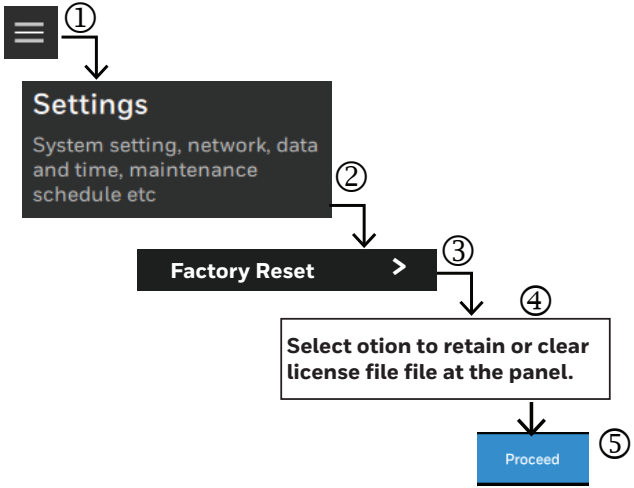
07 View and check Device Types and then select **GENERATE**.

08 Select Regulatory report and then select ‘Report type’, ‘Test Session’ and ‘Export file format’. Then select **GENERATE**.

Factory Reset

This feature is accessible at Access Level 4 only, it allows the panel to be reset to factory settings. After a Factory Reset the panel behaves like an out-of-box panel that is powered up for the first time.

Any configuration held at the Notifier Inspire panel will be erased following Factory Reset.



How to do a Factory Reset?

01 With Tool connected to Panel and Synchronised, ensure the panel show Access Level 4.

02 Select the Menu icon ① and select 'Setting' ②.

03 Select 'Factory Reset' option ③.

04 Select if you want to retain license at the panel.④.

05 Select **PROCEED**.

06 The panel will reset to factory settings.

The time and date will have reset to the day the panel was assembled and tested in the factory.

Indication Limitations

Check to ensure the Tool software is compatible with the Notifier INSPIRE Panel firmware.

CLSS Configuration Tool software version	Panel CPU firmware version
V 1.2.1	V1.2.1

PRESENT INDICATION LIMITATIONS

The version of Panel and Tool software stated has the following indication limitations:

- Notifier Inspire panel will not show an active 'Alarm' status ~~on to 'Activated' when~~ of a fire ~~is~~ triggered from ID3K panel.
- Long labels which are greater than 31 characters long will show correctly on Notifier Inspire panels but will be truncated to 32 characters label when displayed at an ID3K panel in a mixed system. Do not use < > & ' " in label text as they are not supported.
- In a Mixed Network an Inspire panel will not display correct information of remote ID3000 panels.
- ABT4000 Repeater may not display Zone text.
- Zone and Managed Area level self test is not supported.
- LAN-connected Horizon is not available for a Mixed Network of ID3000 and Notifier INSPIRE.
- 'Test Mode' indication is not cleared from the 1st IDR-A Repeater if a 2nd Repeater loses power and is powered up again.
- Following the upgrade of INSPIRE panels in a netowrk and repeated failure of CLSS connection is observed then carry out a Manual Reset on another panel to clear such faults.

Messages and their Meanings

The list of messages shown below are of Fault, Disablement and some Status that may be displayed at a-Notifier INSPIRE Panel. Messages are categorised, with meaning and possible action information to remedy the condition where appropriate.

Note: The list must only be used as reference to find the meaning of a message displayed at a Panel and for information on possible remedial action.

LATCHING FAULT EVENTS

There are some faults identified as latching events such as 'communications stopped'. These require user intervention to remove faults and return the Panel to normal condition.

How to clear a latching fault event

01 Rectify the cause of a latched fault in the system.

02 Then clear the latched fault indication. At the Panel enter as ACCESS LEVEL 2 user and then press **RESET**.

If a latched fault is not rectified then it will re-appear.

In a mixed system some Notifier Inspire panel faults that are unknown to IDK3 panel will appear as 'Unspecified Faults'.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
FAULT EVENTS	
GENERAL FAULTS	
CLOCK NOT SET	The Date and Time are not set at the panel. **Action:** Use the Panels 'Settings' feature to set the date and time.
EXTERNAL EQUIPMENT FAULT	Indicates that the connected third-party equipment has a fault. **Action:** Investigate the cause of the fault at the equipment and remedy it, follow the instructions associated with the external equipment.
FUSE BLOWN	Indicates a fuse has blown on a PCB inside a Module in the panel. **Action:** Return the Module for investigation. Replace the Module.
HARDWARE FAULT	A hardware fault has been detected. **Action:** Reboot and if the fault persists then replace the affected hardware.
MAINTENANCE URGENT	The sensor device is dirty or has reached the end of its useful life. **Action:** Replace the device.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
MISMATCHED HARDWARE TYPE	Hardware type encountered in Panel/system is different to the configuration, for example a device on a loop at a particular address location is different. **Action:** Check the configuration and ensure it matches the system hardware.
NO CONFIRMATION SIGNAL RECEIVED	Confirmation signal not received within time limit. **Action:** Check the connected external equipment.
NON VOLATILE MEMORY ERROR	EEPROM on the affected board is corrupt. **Action**: Replace the affected Module.
SUBSYSTEM INITIALIZATION IN PROGRESS	Sub-system is still initializing and the system is not ready to respond to command or request. **Action:** Wait and let the sub-system initialise.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
LICENSE RELATED FAULTS & WARNINGS	
⚠ **License not Found**	The Panel is not licensed. **Action:** Purchase a license. Sign in to CLSS https://fire.eu.honeywell.com/#/home Purchase a license assigned to the specific Customer/ Site/Building/Panel.
MISSING LICENSE	The Panel does not have a valid license. **Action:** Acquire a valid license.
MISSING CLIP LICENSE	The Panel does not have a CLIP license to operate CLIP devices on loop. **Action:** Acquire a valid CLIP license. Sign in to CLSS https://fire.eu.honeywell.com/#/home Purchase a license assigned to the specific Customer/ Site/Building/Panel.
MISSING PROTOCOL LICENSE	The Panel's protocol license is missing. **Action:** Acquire a valid license. Sign in to CLSS https://fire.eu.honeywell.com/#/home Purchase a license assigned to the specific Customer/ Site/Building/Panel.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
MISSING COUNTRY LICENSE	The Panel does not have a country license to allow it to display text in respective language with country specific features. **Action:** Acquire a valid license. Sign in to CLSS https://fire.eu.honeywell.com/#/home Purchase a license assigned to the specific Customer/ Site/Building/Panel.

Notifier Inspire is using licensing as quick and flexible means to install additional features and functionality. The relevant license can be ordered through a standard order or it can be purchased directly through your account on the CLSS platform.
Just sign in to CLSS https://fire.eu.honeywell.com/#/home.
Once the license is purchased you can assign it to a specific Customer/Site/Building/Panel.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
PROCESSOR RELATED FAULTS	
CO PROCESSOR SYSTEM FAULT	Indicates fault on the backup processor of ID2net or PIC in S200 or an issue during communication with FAT co-processor **Action:** Reboot and if the fault persists then replace the affected hardware.
INCOMPATIBLE FIRMWARE	Firmware is not compatible. **Action:** Check and ensure compatible firmware is loaded on the Panel build.
PROCESSOR REBOOTED BY WATCHDOG	Processor has rebooted after watchdog activation. **Action:** If the fault persists then replace the affected hardware.
PROGRAM MEMORY FIRMWARE CORRUPT	Firmware memory fault detected. **Action:** Reboot and if the fault persists then replace the affected hardware.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
CONFIGURATION RELATED FAULTS	
BUFFER FULL	Network card buffer overflow has occurred. **Action:** Wait to see if that helps.
CONFIGURATION DATA CORRUPT	Configuration data held at the Panel is corrupt. **Action:** Load again the Panel / system configuration data from the Configuration tool.
CONFIGURATION MISMATCHED WITH HARDWARE	There is a configuration mismatched with hardware. **Action:** Ensure configuration at the Configuration tool matches the hardware before it is synchronised with the Panel.
CONFIGURATION DATA INVALID	There is an issue with configuration. **Action**: Resend configuration from Tool to Panel.
NETWORK DOMAIN RING OR SUBNET LOST	The Panel is isolated from the network. **Action**: Check network module and associated wiring.
NO CONFIGURATION DATA	There is no configuration data, which happens on panel being 'Factory Reset'. **Action:** Synchronise configuration data at the Configuration tool with the Panel. Load again the Panel / system configuration data from the Configuration tool to the panel.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
UNCONFIGURED DEVICE FOUND	There is a physical difference in the number of loop devices at the panel, ie new devices may have been wired to the loop. **Action**: Learn the new devices at the tool using 'Read' feature and re-configure loop in tool to accommodate the added devices.
PSU & CHARGER RELATED FAULTS	
BATTERY DISCONNECTED	The wiring to Panel battery is disconnected. **Action:** Check the battery wires make good connections to terminals, also check the battery fuse.
BATTERY END OF LIFE	Battery has reached the end of its useful life. **Action:** Replace the battery. Use only the recommended battery.
BATTERY HIGH RESISTANCE	Battery with high resistance has been detected. Note there are two batteries. **Caution:** Battery may heat up on load resulting in battery voltage drop. **Action:** Check battery temperature, charger Module LED indication and connection to battery terminals. If the fault persists then replace battery.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
BATTERY HIGH VOLTAGE FAULT	Battery high voltage has been detected. Note in a cold environment the battery charge voltage may be slightly higher than normal. **Action:** Check the environment around the Panel and ensure it is within the specified range and also check the battery charger voltage.
BATTERY INTERNAL FAULT	An internal battery fault has been detected. **Action:** Check the battery and wiring. If the fault persists then replace battery.
BATTERY LOW VOLTAGE	The battery charge level has run low or there is a fault with the battery or charging circuit, the battery may be discharged. **Action:** Check mains supply is present and the charger circuit is working correctly, allow battery to recharge if necessary.
CHARGER FAULT	A charger fault has been detected. **Action:** Check Charger Module is corrected seated and check internal wiring of PSU, Charger Module and batteries. Replace the Charger Module if fault persists.
DC CONVERTER FAULT	DC converter is faulty relates to issue with IO Module and FARE Module. **Action:** Replace the affected Module.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
DC VOLTAGE TOO HIGH	DC voltage is too high. **Action:** Check PSU output voltage and if fault persists then replace the PSU.
DC VOLTAGE TOO LOW	The DC voltage is too low. **Action:** Check internal wiring to PSU and if this fault persists replace the PSU.
DEEP DISCHARGED FAULT	Battery deep discharged fault has been detected. **Action:** Check the charger is working and allow sufficient time for battery to recharge. If the fault persist then replace battery.
EARTH FAULT	Earth fault has been detected. The Panel has detected a short circuit between the earth and another wiring point. **Action:** Investigate the cause and remedy the fault. Check cable condition and wiring to the suspected part of the system for possible earthing issue. Cable screens must only be earthed at one point.
EXTERNAL POWER SUPPLY FAULT	External power supply has a fault. **Action:** Check for cause and rectify the fault, follow the instructions supplied with the external power supply.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
HIGH TEMPERATURE FAULT	The PSU and Charger module are operating under much higher than normal temperatures. **Action:** Check and ensure the Panel is installed in a correct environment and also power is not being used to power non specified equipment.
LOW TEMPERATURE FAULT	The PSU and Charger are operating under much lower than normal temperatures. **Action:** Check and ensure the Panel is installed in a specified environment.
MAINS SUPPLY FAILED	Mains supply fault has been detected. **Action:** Check the mains fuse in Panel and at the fused spur unit, also check mains voltage to PSU and the internal wiring.
OVER CURRENT FAULT	A current too high fault has been detected. **Action:** Monitor and if possible determine what is taking excessive current. If the fault persists then seek advice.
POWER SUPPLY OUTPUT FAULT	The output from the PSU has a fault. **Action:** Check the PSU wiring connections and its output voltage and local indications. If fault persists then replace the PSU.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
PSU TEMPERATURE SENSOR FAULT	The temperature sensor on the battery terminal connector is faulty. **Action**: Check the temperature sensor at the battery terminal point for damage. Check also the wiring from battery terminal to the termination card for damage. If fault persists on Notifier Inspire panel then replace the battery cable assembly. On ID3K the battery cable cannot be replaced.
WIRING & DRIVER RELATED FAULTS	
FAULT DETECTED ON PORT A	There is a fault detected on PORT A of Network Module. **Action:** Check the setting of PORT A of Network Module and the wiring to PORT A terminals to remove this fault condition.
FAULT DETECTED ON PORT B	There is a fault detected on PORT B. **Action:** Check the setting of PORT B and the wiring to PORT B to remove this fault condition.
OPEN or SHORT CIRCUIT	A wiring open or short circuit has been detected on a loop circuit. The location of this fault is indicated by the yellow LEDs of the devices either side of the fault. **Action:** Check the wiring between devices having lit yellow LEDs and rectify the wiring fault.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
OUTPUT DRIVER FAULT	The output driver is faulty. **Action:** Affected module must be replaced.
PARTIAL OPEN /SHORT CIRCUIT	A partial open / short circuit has been detected on a loop wiring. This fault will affect devices ability to detect fire. **Action:** Check the loop wiring to the terminals at suspected devices and also check the loop wiring for damage. Take corrective steps to rectify the fault. If necessary measure loop values and compare these with those taken on first power up of the panel.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
COMMUNICATION & MAPPING FAULTS	
COMMUNICATION ERROR OR TRANSMISSION FAULT	Communication error or transmission fault detected. Fire cover could be impaired. **Action:** Seek advice, contact Notifier technical support. Once the communication is re-established the Panel must be powered-down and powered-up again.
COMMUNICATIONS STOPPED	Communication stopped. **Action:** Seek advice, contact Notifier technical support.
DEVICE ADDED	A device that has not been configured has been detected on a loop. **Action:** Ensure the added device is configured to operate in the system as required.
DUPLICATE ADDRESS	Two devices have been detected having the same address. **Action:** Locate the affected devices and allocate a new address to one of the two devices.
HARDWARE FAULT FOUND DURING MAPPING	A hardware fault was detected during mapping. Network node wiring is reversed. **Action:** Check the network wiring.
HIGH COMMUNICATION ERROR RATE	High communication error rate detected. **Action:** Seek help, contact Notifier technical support.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
INCOMPATIBLE DEVICE DETECTED	Incompatible device detected. **Action:** Ensure compatible device is installed in the identified location.
INVALID DEVICE FOUND	An unsupported device type has been connected to the loop. **Action:** Replace with a supported device type.
MISSING DEVICE DETECTED	Missing device(s) detected on a loop. **Action:** Check the loop circuit and add missing device(s), ensure they are installed correctly.
NO REPLY	The Panel is no longer able to communicate with a device. A component in the system is not responding. **Action:** Check Panel screen to identify which device or module on a loop is exhibiting such fault. Check the device LED color and state. Check that the device is correctly fitted and ensure wires are secured to the device terminals. If the fault persists then replace the device.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
TOO MANY DEVICES DETECTED	Too many devices detected on a loop circuit. **Action:** Check and ensure the maximum number of devices allowed on a loop circuit are not exceeded.
FIELD DEVICE FAULTS	
ASPIRATION CONFIGURATION FAULT	Aspiration configuration fault has been detected. **Action:** Check the configuration of the ASD unit is correct for the required application.
ASPIRATION DETECTOR FAULT	Aspiration detector(s) inside a ASD is faulty. **Action:** The detector inside the ASD unit is faulty, replace the detector(s).
ASPIRATION FAULT	Aspiration fault detected. This fault relates to ASD air sampling fire detection equipment. It indicates that the ultrasonic circuit is not functioning, the aspirating system has a fault or the flow initialisation has failed. **Action:** The ASD unit may be faulty and needs checking to ensure it is correctly installed. If fault persists then replaced the unit.
ASPIRATION FILTER FAULT	Aspiration filter is faulty. **Action:** Replace the filter(s) inside the ASD unit.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
ASPIRATION HIGH FLOW	Aspiration high flow fault detected. This fault relates to ASD air sampling fire detection equipment. This fault indicates that the flow of air through the aspirator is outside the required range for correct operation. **Action:** If the fault persists then adjustments may be necessary.
ASPIRATION LOW FLOW	Aspiration low flow fault detected. This fault relates to ASD air sampling fire detection equipment. This fault indicates that the flow of air through the aspirator is outside the required range for correct operation. **Action:** Air flow should be checked and adjustments made where necessary.
ASPIRATION POWER FAULT	Aspiration detector power fault detected. **Action:** Check the supply of power to the ASD detector and ensure it is present.
ASPIRATION SCANNER FAULT	Aspiration scanner fault detected. **Action:** Check ASD unit.
ASPIRATION TIME BASE FAULT	Aspiration time base fault detected. **Action:** Check ASD unit.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
# Conventional Beam sensor supports these fault messages and its status is read at an Input Module.	
BEAM ALIGNMENT MODE ACTIVE # Beam sensor supports this fault message. The status of Conventional Beam is read at an Input module.	The conventional beam panel is currently in alignment mode (to allow the transmitter to be aligned with the reflector). This mode is entered when the Alignment Mode button (at ACCESS LEVEL 2) on the detector is pressed. There is no fire cover while in this mode. **Action:** If after completion of beam panel commissioning it is still in this mode this message indicates the device was not installed correctly and the set up procedure needs to be carried out again (use the instructions provided in the device manual).
BEAM BLOCKED #	Check the line of sight between the conventional beam panel transmitter and the reflector for a blockage in the beam path. **Action:** Find and remove the obstacle causing the blockage.
BEAM INCORRECT POSITION #	Conventional Beam panel incorrectly positioned was detected. **Action:** Check and take corrective action to ensure beam sensors are correctly positioned.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
BEAM INITIALIZATION MODE #	The conventional beam panel is currently in initialization mode (booting up). This mode should clear after the initialization period has ended. **Action:** If this message persists then the beam detector is faulty and must be replaced.
BEAM LOCAL OBSCURATION TEST FAILED #	Beam local obscuration test has failed. **Action:** Clean the transmitter and reflector and repeat the test. It is possible there is incorrectly aligned beam (run through beam alignment procedure again and repeat test). The conventional beam panel remains in fault until reset or timeout.
BEAM LOCAL TEST FAILED #	Conventional Beam panel local test has failed. This test is performed either using the remote test key or by pressing the test button on the beam detector. Either test should force the beam detector to signal an alarm condition. **Action:** If the test fails, then the unit is faulty and requires replacement.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
# Conventional Beam sensor supports these fault messages and its status is read at an Input Module.	
BEAM OVER RANGE #	This is an increase in the reflected signal at a Conventional Beam Panel. **Action:** Inspect line of sight between transmitter and the reflector for reflective objects in beam path. Alternatively, check that sunlight is not shining on the reflector at certain times of the day.
BEAM Panel OBSCURATION TEST FAILED #	Conventional Beam Panel obscuration test has failed. **Action:** Same solutions apply as for BEAM LOCAL OBSCURATION TEST FAILED.
BEAM Panel TEST FAILED #	Conventional Beam Panel test has failed. This test is controlled from the Conventional Beam Panel . The test forces the beam detector to signal an alarm condition. **Action:** If the test fails the unit is faulty and requires replacement.
BEAM UNDER RANGE #	Beam path under range is detected. **Action:** Check and ensure the beam path is over the minimum recommended range.
CO SENSOR FAULT	CO sensor fault detected. **Action:** Replace the device.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
CO SENSOR LIFE EXPIRED	CO sensor life has expired. So, this is a sensor maintenance alert. The Carbon Monoxide (CO) element of a SMART 4 multi-criteria sensor has reached its expiry time. **Action:** Replace the device.
DRIFT LIMIT REACHED	A maintenance indication of a dirty sensor approaching the limit of its operability. **Action:** Replace the device.
FREEZE ALERT	Device is operating below it's recommended operating parameters. **Action:** Check device is in the correct environment
HEAT SENSOR FAULT	Heat sensor fault detected. **Action:** Check and Replace the device.
IR AMBIENT LIGHT FAIL	The sensor is dirty or located where too much ambient light is penetrating the sensor's detection chamber. **Action:** Replace or change to an alternative sensor type.
IR FAULT	IR sensor fault has been detected. **Action:** Replace the device.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
IR SATURATION	The sensor is dirty or is located where too much ambient light is penetrating the sensor's detection chamber. **Action:** Replace device and if the problem persists then change to an alternative sensor type.
LINT TRAP FAULT	The fault is applicable to VIEW sensors only. The sensor has become contaminated (possibly an insect). **Action:** Remove the contaminant. If this fails to clear the fault then replace the device.
LOOP ISOLATOR OPEN	A short-circuit fault has been detected on one of the loops. The isolators on either side of the short circuit will open to isolate the affected part of the loop. The colour of the LEDs of the devices either side of the short-circuit condition changes to yellow. **Action:** Check and remedy the wiring between devices with lit yellow LEDs. If problem persists the replace the affected devices.
OPTICAL SENSOR CHAMBER FAULT	There is a hardware problem with the sensor device. **Action:** Replace the ~~sensor~~ device.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
SELF TEST ENDED AND FAILED	A self test ended with a failure. **Action:** Ensure the dust cover was removed off the device. Check the physical condition of the device and the surrounding is not causing the failure. Upon checks carry out another self test and if failure persist then replace the device.
SELF TEST ABORTED	A self test on a device was stopped. **Action:** Ensure the panel is not in a Fire condition, ensure the CLSS App has internet connectivity, ensure there is no CLSS Gateway fault present and ensure the panel is in Service Mode. Upon checks carry out another self test and if the failure persists then replace the device.
SELF TEST DID NOT START	A self test on a device did not start. **Action:** As per action for SELF TEST ABORTED.
SELF TEST FAILED	A self test has failed. **Action:** Check wiring and communication between panel and CLSS Gateway. Check wiring to the device and dust cover was removed off the device. Upon checks carry out another self test and if failure persists then replace the device.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
SENSOR FAULT	Sensor has a fault. **Action:** Ensure the device is fitted to its base. Check wiring to the device. If fault persists then replace the device.

WIRELESS EVENTS

TAMPER FAULT	Wireless device has been taken off from base. **Action**: Refit the wireless device to the base.
WIRELESS LOW SIGNAL STRENGTH	The signal strength is insufficient for communication between wireless devices. **Action**: Use a wireless tool to check the signal strength and take remedial action to increase the signal strength.
WIRELESS BACKGROUND NOISE LIMIT EXCEEDED	Noise has affected the signal to and from the wireless device. **Action**: Use a wireless tool to check the signal strength and take remedial action to cut noise and increase the signal strength.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
MAINTENANCE EVENTS	
BATTERY LIFE WARNING	Warning for end of battery life. **Action:** Replace the battery.
CO EXPIRY WARNING	Warning message of CO device has reached the end of his life cycle (6 months). **Action:** Replace the device.
DRIFT COMPENSATION	This is a maintenance warning that a dirty sensor has reached the extreme limit of its operability. **Action:** Replace the device.
MAINTENANCE PRE ALERT	Message of maintenance due, sensing is becoming contaminated. **Action:** Replace the device.

Message	Meaning and possible remedial action. If a fault persists then seek advice. Any remedial action that require wiring, replacement or updates, such work must be done by a trained engineer.
TEST OPERATION MESSAGES	
FARE REMOVED FROM TEST	A message to inform that Fire Alarm Routing Equipment has been removed from Test mode.
FARE TEST	A message to inform that the Fire Alarm Routing Equipment is in Test mode.
INDICATOR TEST STARTED	A message to informs that an 'indicator and display' test has started. **Action:** To stop the 'indicator and display' test select 'STOP INDICATOR TEST' button.
INDICATOR TEST STOPPED	A message to informs that 'indicator and display' test has stopped.
ZONE IN TEST	A message to inform of a Zone in Test mode. **Action:** Once the tests are complete take the Zone out of Test mode.
ZONE REMOVED FROM TEST	A message to inform a Zone has been removed from Test mode.

DISABLEMENT & WARNING EVENTS

DISABLED	A part of the system such as a Detection Zone, Loop Device, FARE or FRE is disabled and the disablement action was successful. **Action:** Re-enable the disablement when required.
ENABLED	A part of the system such as a Detection Zone, Loop Device, FARE or FRE is enabled and the enablement action was successful.

ALARM EVENTS

ALARM	Indicates an Alarm has been reported from a detection device.
FIRST ALARM	Indicates the First Alarm reported from a detection device.
PRE ALARM	Certain detection device types has the ability to report when an alarm has been almost reached but not fully, which is called pre alarm. Note a pre alarm in time can go into a full alarm. **Action:** Investigate possible cause of Pre Alarm by checking the environment around the installed device.
TEST ALARM	This is an Alarm from a detection device that has been set to Test Mode. **Action:** Once tests are complete ensure Test mode is removed.
TECHNICAL ALARM	These are fault/alarm input from plant equipment in buildings, such as from an Air Conditioning Systems, Elevators, Sprinkler installation, Heating and Cooling systems and any technical equipment in a building to notify 'Responsible persons' or warn the general public if there is a risk or hazard. **Action**: Investigate possible cause of Technical Alarm and where appropriate take remedial action to remove the fault/alarm at plant equipment.

Notes

Notes

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

WEEE Directive:
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
Do not dispose of with your normal household waste.
Do not burn.

NOTIFIER® by Honeywell

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