Honeywell

HW-AV-LTE-M

CLSS Pathway

Quick Start Guide

The CLSS Pathway (HW-AV-LTE-M) is a sole path communicator leveraging redundant cell carriers (Verizon and ATT) or a dual-path cellular communicator using IP as the primary path and redundant cellular carriers as the secondary path.
The communicator is powered from the FACP using 12-29-volts DC, or an external UL 864 listed power supply.
The communicator supports Contact ID, SIA, or 4x2 data from the FACP to the monitoring station.

Other Features

4 dry contact relay inputs for event reporting and 2 relay outputs for communication path supervision. See figure 3 for wiring details.

Information Sources

For more detailed procedures and all configuration options:
Installation and Operations Manual (LS10340-000HW-E)
To install in the enclosure (HW-AV-ENC) and wire for dialer capture or relay monitoring:
Product Installation Document (LS10338-000HW-E)
To access the most updated versions of all product documentation, log on to *CLSS Site Manager* and access the help section.
Instructions for obtaining a CLSS account are in the *A. Receiving a CLSS Account for Your Organization* section below.

A. Receiving a CLSS Account for Your Organization

Configuring the CLSS Pathway requires a CLSS account. If you already have the CLSS account, then proceed to section *B. Assigning the Device to a Customer.*
To request a CLSS Account, please visit *fire.honeywell.com* or scan the QR code below for instructions to request a CLSS Account:

Your organization's Administrator should perform this activity. An Administrator is someone who can sign on behalf of the organization.
After receiving your CLSS account, add your *Customers* and *Employees* in the *CLSS Site Manager*. Please refer to the help section of CLSS Site Manager for more information.
Note: Be sure the CLSS administrator adds additional employees using CLSS Site Manager vs. requesting individual accounts using "Request Access".

B. Configuring Central Station Alerting for the Device

B.1. Adding a Central Station to Your CLSS Account. This step must be completed by the organization's Administrator. This is a one-time task for each central station.

1. Log into the *CLSS Site Manager.*
2. Click your profile icon at the top-right corner and select **External Accounts.**
3. Click **ADD NEW** in the **External Accounts** page, under **Central Stations** section.
4. Follow the on-screen instructions.

B.2. Assigning a Central Station Account to the Device. This step associates your central station account details for the specific site with the device you are configuring.

1. Log into *CLSS Site Manager.*
2. Navigate to the *Customer > Site* in the *CLSS Site Manager,* where the device is installed.
3. Click the **Feature Activation** icon on the left sidebar.
4. Click the **CLSS Pathway** section at the left and then click on the respective device to see details.
5. Click **Configure Central Station Alerting** in the details view.
6. Follow the on-screen instructions.

C. Assigning the Device to a Customer

This step is required to associate your device with a CLSS *Site* and *Building* for your *Customer*.

1. Log into the *CLSS* mobile App.
2. Tap the three dots at the top-right corner of the dashboard and then click **Install Pathway.**
3. Follow the on-screen instructions.

D. Programming the Connected Panel

Program according to the panel's programming document.

- Enabling the PSTN dialer of the panel
- Selecting the DTMF mode (for tone dialing)
- Selecting the Contact ID communication format
- Providing any telephone number for dialing. Ex: 999999
- Entering the 4-digit account number

E. Mounting the Communicator

You can mount the communicator within a UL-listed enclosure, or optionally, within the HW-AV-ENC.

Warnings

- Before mounting and wiring, ensure that the panel is powered down.
- Only a regulated UL-Listed UOJZ, UTOU, or NBSX control panel or power supply should power the communicator.
- The communicator must be connected to a UL-Listed compatible panel with power limited circuits.
- Install the communicator only at a *dry indoor* location.
- The location and wiring methods must be in accordance with the National *Electrical code, ANSI/NFPA 70.*
- Install in accordance with the *National Fire Alarm and Signaling Code, NFPA 72.*

To Mount the Communicator

Mount the communicator and wire for dialer connections as in the *Figure 2: The Wiring Diagram for Dial Capture*
When using relay inputs, refer to
Figure 3: Wiring Diagram for FACP Relay Trigger Input Reporting

⚠	For UL installations, secure the communicator to a UL-listed enclosure.
⚠	Enclosure should be close nipple to the fire alarm control panel.

1. Check that you have the communicator, 3ft antenna, and this *Quick StartGuide* from the carton box.
2. In this *Quick Start Guide*, locate the installation sticker in the *Serial Number and Configuration Key* section. It is at the bottom right of the last page.
3. Check that the sticker has the serial number and the configuration key to program the communicator.
4. Place the sticker on the inside lid of the enclosure.
5. If using the HW-AV-ENC, mount the enclosure onto the two mounting holes as in Figure 1 and secure it with the hardware supplied with the enclosure.
6. Slide the box onto these screws and tighten the screws.

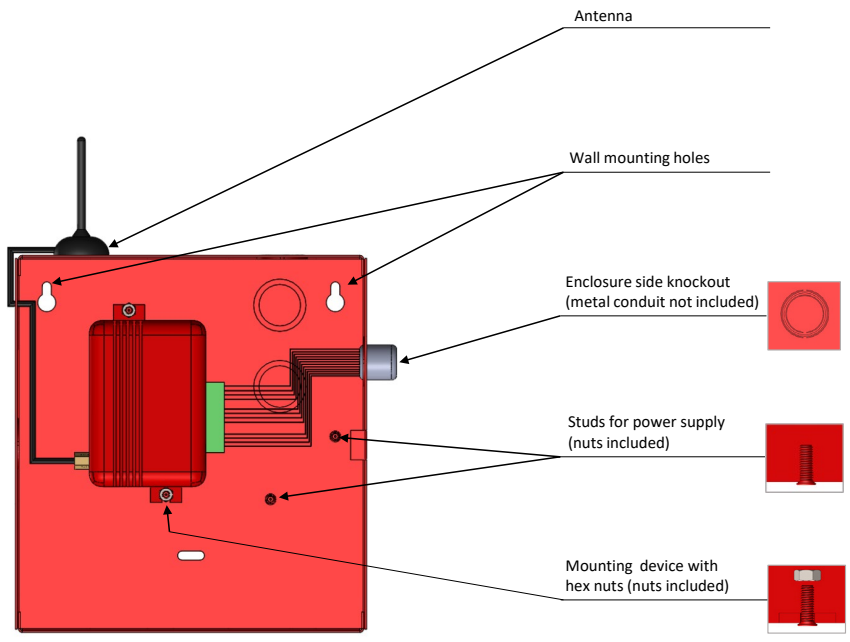

Figure 1: Mounting the Communicator

F. Installing the Antenna

The antenna comes with an SMA connector, which provides easy connection with the communicator.

Important

- Do not use a damaged antenna with the communicator. Replace the damaged antenna immediately.
- Use only a manufacturer approved antenna. Non-approved antennas or modifications could impair service quality, damage the device, and violate FCC regulations.
- A location below the ground level or a metal structure may impact the network coverage.
- The antenna should be positioned perpendicularly to the ground, either right side up or upside down.
- Keep the antenna away from any sources interfering with or blocking the RF signal.
- For example, a metal object may shield the cellular radio RF signal.
- The antenna should be at least 7.8" (20 cm) away from people.
- The antenna must not be co-located or operating with any other antenna or transmitter.
- Ensure that the panel **supplies 24V DC** power from its constant power output.

To Connect the Antenna

1. Route the antenna cable through the small rubber grommet located on the top-left side of the enclosure.
2. Attach the magnet at the bottom of the antenna onto the top wall of the enclosure.
3. Locate the antenna connector on top of the communicator.
4. Thread the antenna cable end onto the antenna connector and tighten it.
5. Loop the excess cable length inside the enclosure.

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G. Wiring for Dialer Capture

For dialer capture, you connect both dialer ports of the fire panel with the communicator.

⚠ All wiring must be within a conduit.

Preparations

- For panel dialer ports with 8-pin RJ type connectors, use an RJ45 connector with the other end as a pigtail.
- Use only the Pin 4 wire, which is typically Blue with White stripe, for RING connection.
- Use only the Pin 5 wire, which is typically solid Blue, for TIP connection.
- Cut all other wires.

To Wire the Panel with the Communicator for Dial Capture

Panel's Terminal	Connector	Steps
AUX	+	Connect to AUX + of the Communicator.
GND	-	Connect to GND of the Communicator.
Primary Dialer	RING	Connect to RING of the Communicator.
	TIP	Connect to TIP of the Communicator.
Backup Dialer	RING2	Connect to RING2 of the Communicator.
	TIP2	Connect to RING2 of the Communicator.

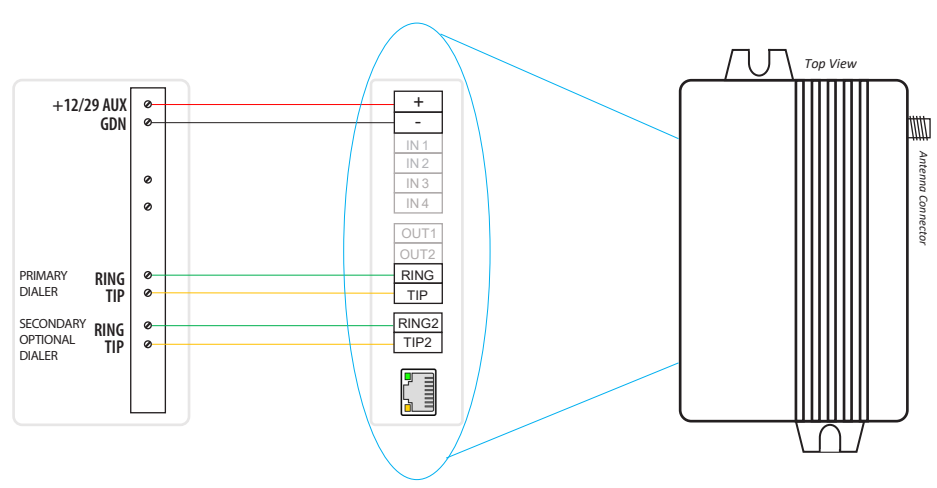
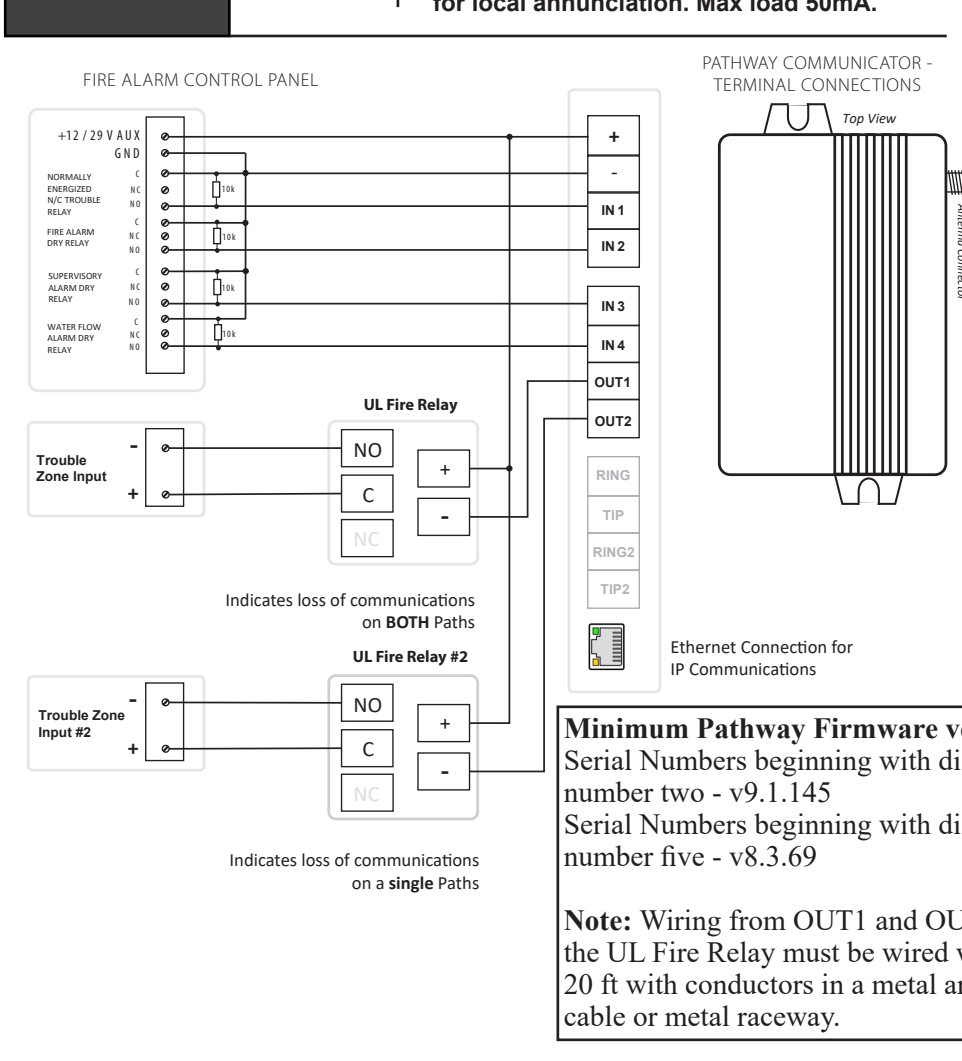


Figure 2: Wiring Diagram for Dial Capture

Wiring Diagram for FACP Relay Trigger Input Reporting

Panel's Terminal	Connector	Steps
AUX	+	Connect to AUX+ of the panel panel
GND	-	Connectd to the AUX – (GND) of theCommunicator
Trouble Relay Output	IN1	Connect to a Trouble Relay Output
Fire Alarm Relay Output	IN2	Connect to a Fire Alarm Relay Output
Waterflow Alarm Relay Output	IN3	Connect to a Waterflow Alarm Relay Output
Supervision Alarm Relay Output	IN4	Connect to a Supervision Alarm Relay Output
Trouble Zone Input	OUT1	Indicates loss of BOTH cellular AND LAN connections, connect to a Trouble Zone Input for local annunciation.
Trouble Zone Input 2	OUT2	Indicates the loss of EITHER Cellular or LAN Connection, connect to Trouble Zone Input for local annunciation. Max load 50mA.



Minimum Pathway Firmware version:
Serial Numbers beginning with digit number two - v9.1.145
Serial Numbers beginning with digit number five - v8.3.69

Note: Wiring from OUT1 and OUT2 to the UL Fire Relay must be wired within 20 ft with conductors in a metal armored cable or metal raceway.

Figure 3: Wiring Diagram for FACP Relay Trigger Input Reporting

NOTE
Pathways serial numbers that begin with digit 2, the minimum firmware version is 9.1.145 to support relay supervision.
For Pathways serial numbers that begin with digit 5, the minimum firmware version is 8.3.69.
Please contact tech support if a firmware update is required.
The firmware version can be confirmed in the Device Details section of CLSS.

H. Powering ON

1. Power ON the communicator and the panel.
2. Ensure that the panel and communicator are receiving required power.

I. Activating the CLSS Pathway

A panel event activates the CLSS Pathway communications. Create a test event and check that the device is activated.

J. Verifying the Connections

The Green LED is	Indication	Suggeste Steps
Constantly ON	Connected with good signal	None
Fast Flashing	Transferring data	None
Slow Flashing	Attempting connection despite signal issues	Reposition the antenna
Flashing every 5 seconds	Connected despite the low signal	Reposition the antenna

Communicator Troubleshooting

OFF	Communicator is not connected to the panel	Verify that the wiring is as per the wiring diagram
	No power from the panel	Measure and ensure required AUX output from the panel
	Damaged communicator	Replace the communicator

Connection Troubleshooting

If no events are received: Verify the RING and TIP connections. Then, check for communication failure error messages at the panel and fix the error, if any. Disable the *Wait for Dial Tone* options in the panel. Using the CLSS app or Site Manager, delete and reinstall the Pathway communicator.
Cellular Connectivity issues: Go to the *Device Registration* screen on the *CLSS* App. Ensure that the signal strength shown on it is at least one to two bars. Reposition the antenna for higher signal strength.

Operational Requirements	
Supply Voltage	+12V to +29V DC
Current	Standby: 60mA I Peak 200mA
Frequency	LTE CAT-M1 700/850/1700/1900/2100 MHz
GSM Providers	AT&T, Verizon or other networks available in the area
Physical Characteristics	
Dimensions	2.48" x 3.54" x 1.26"
Weight	2.56 oz without antenna
Room Conditions	
Temperature	0 °C to 49 °C (32 °F to 120 °F)
Relative Humidity	1% to 85% I Non-condensing

LTE Cat-M1 is a category of 4G long-term evolution (LTE) technology for machines (M). LTE-M is an abbreviated name for LTE Cat-M1.

Refer to the Verizon and ATT Coverage Maps to ensure LTE-M coverage is available at the protected premise or conduct a site survey using an active communicator at the proposed mounting location. Signal strength can be retrieved in the device details section of CLSS, and is represented numerically and graphically.

Agency Listings and Approvals

These listings and approvals apply only to the communicator specified in this document. In some cases, listing may be in process.

FCC Statement
This equipment complies with FCC rules Part 15.

UL Listed for UL 864 Standard
S35608
Note: Check for UL receiver compatibility with Central Station

ETL Listed for UL 864 Standard
Control No. 5013005

UL Standards
The HW-AV-LTE-M is designed to comply with UL 864 - Control Units and Accessories for Fire Alarm Systems Units

Serial Number and Configuration Key

Remove the sticker below and apply to inside the communicator enclosure lid. This will be used during CLSS communicator programming and for future reference.

12 Clintonville Rd.
Northford, CT 06472
Technical Support: *CLSS.Tech@honeywell.com, 1-480-936-7425*