INSTALLATION MANUAL

HARDWIRE



The **IQ Hardwire 16-F** offers a cost effective way of integrating hardwired security & smoke detector zones with the IQ Panel 2/2+. It includes backup battery charging, 500mA of 12volt auxiliary power, an onboard siren relay, built-in status LED's for each zone and support for up to 10 two-wire smoke detectors. Normally Open and Normally Closed contacts are supported as well as powered zones like motion sensors and glass break detectors.

Note: Not for use with CO detectors

TECHNICAL SPECIFICATIONS

Input Voltage: 16.0VDC Plug-In Transformer Backup Battery: 12VDC 5AH Max (not included) Dimensions: 5.5" X 3.5" Operating Temperature: 32 to 122F (0 to 50C) Humidity: 95% RH Max EOL Supervision: 4.7k Ohm Input Zones: 15 N/O or N/C Smoke Zone: 1 two-wire smoke loop, 10 detectors max. Support for System Sensor® 2W-B, 2WT-B, 2WTA-B* *Detector models should not be mixed Auxiliary Voltage Output: 12VDC @ 500mA Max Tamper Zone: Used for case tamper, no resistor Relay Contact: 60VDC/1A Max drives siren

UL REQUIREMENTS

Compatible Control Panel: The IQ Hardwire 16-F is for use with the Qolsys IQ Panel 2/2+ only. Refer to the full IQ Panel 2/2+ installation manual for typical installation layout, including recommended locations of the control unit, detectors and notification appliances. Enclosure: For UL Installations, Qolsys enclosure QR0073-840 shall be used. Listed Resistor: For UL Installations, Qolsys 4.7K Fire Resistor Part # QR0072-840 shall be used on the 2-wire fire loop at the end of line. Wiring: For UL Installations, recognized limited energy cable shall be used.

INFORMATION

Document #: IQHW16FQG Revision Date: 10/16/18 Qolsys Part #: QS7133-840



Confidential & Proprietary. Made in Taiwan.

STEP 1: INSTALL THE HARDWARE

- 1. Mount the IQ Hardwire 16-F vertically in your desired location
- 2. Install the provided antenna into the "ANT" terminal at the top of the unit free from obstructions
- 3. Wire all hardwired sensors into the terminals marked Zone 1-15. Zone 16 is reserved for two-wire smoke detectors:
 - a. All zones must have a 4.7k resistor (included) installed in either the N/O (parallel) or N/C (series) position
 - b. Wire the positive and negative leads from powered devices, such as motion sensors and glass break detectors, into the "AUX" (+) and "GND" (-) terminals to power the devices.
 - c. Wire a tamper switch into the tamper terminals without using a resistor. If a tamper switch is not being used, permanently shunt the zone with a piece of wire.
 - d. Optional: Wire the hardwired siren (60VDC/1A Max, see wiring diagram)
- 4. Plug in a 5Ah lead acid backup battery with included battery leads (battery not included)
- 5. Using the provided 16vDC power supply, connect the leads to the terminals marked "+16.0V" & "GND", then plug then supply into a wall outlet. (*Note: dashed wire is positive*)



If mounting inside a metal can, the antenna must extend outside the enclosure to ensure RF communication

INSTALLATION MANUAL

16-F HARDWIRE

STEP 2: PAIR THE IQ HARDWIRE 16 WITH THE IQ PANEL 2/2+

Note: This step is required and allows the IQ Panel 2/2+ to control the wireless Siren Relay, reset the two-wire smoke detectors after a fire event and supervise the battery, AC power status, aux power out & tamper. The IQ Panel 2/2+ must have the Tx/Rx 319.5 MHz SRF card installed with RF PIC 11.1.4 G2 or higher.

CALL HARDWIRE





Press and hold "EOL LEARN" for 1-2 secs. (all Zone LED's flash and then turn off)

EOL CAL LED will turn ON. This indicates the module is now in "Auto Learn" mode

PANEL2



Place your IQ Panel 2/2+ in "Auto Learn" mode:

Settings/Advanced Settings/ Installation/Devices/Security Sensors/Auto Learn Sensor

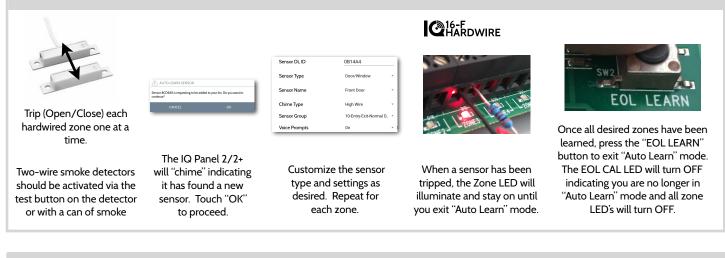


Trip the module by opening the tamper switch or by removing jumper installed in Step 1 from the "Tamper" terminals, then replace

Sensor DL ID	8CD5A5	
Sensor Type	Hardwire Translator	Ŧ
Sensor Name	Hardwire Translator	Ŧ
Chime Type	None	Ŧ
Sensor Group	13-Takeover	÷
Voice Prompts	Off	Ŧ

Follow the onscreen prompts on the IQ Panel to finish the enrolling process. The IQ Hardwire 16-F should be learned in as a "Hardwire Translator"

STEP 3: PAIRING INDIVIDUAL ZONES/SENSORS



TROUBLESHOOTING

EOL LEARN Button: Enters and exits "Auto Learn" mode

MEMORY RESET Button: Clears memory and resets the device to factory defaults when held for 3 seconds during power up

PROCESSOR LED: Flashes during normal operation

RF XMIT LED: Flashes when RF transmission is being sent

EOL CAL LED: Flashes when no zones have been learned in yet. ON when device is in "Auto Learn" mode. OFF when device is in "Normal Operation Mode"

ZONES 1-15 LEDs: OFF while in "Auto Learn" mode unless a zone has been learned in or tripped, then ON. OFF while in "Normal Operation Mode" unless a zone is open, then ON or if a zone is tampered, then FLASHES

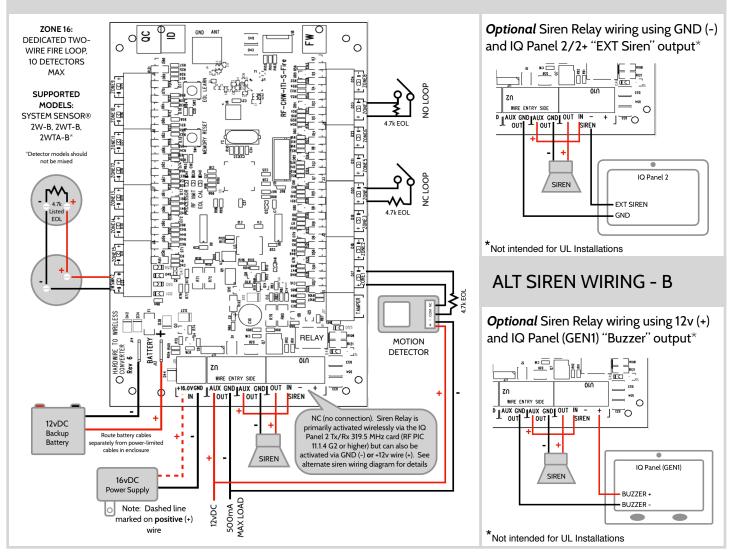
ZONE 16 SMOKE LED: ON when smoke detector is in alarm

How to Clear the Memory: Power

down the unit by unplugging the battery leads and the power supply. Hold down "Memory Reset" for 3 seconds while re-applying power to the device. Processor, RF Xmit and EOL CAL LED's will begin to flash rapidly indicating that the module has been reset

INSTALLATION MANUAL

WIRING DIAGRAM



LISTED

 For Service Contact

 COMPANY NAME:

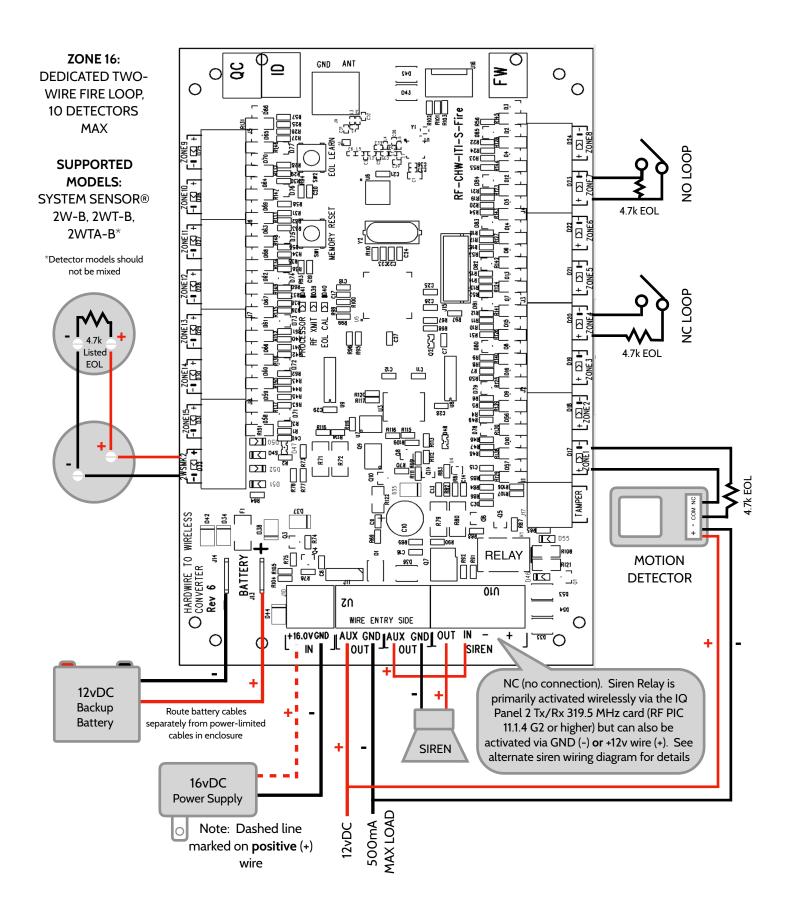
 ADDRESS:

 PHONE:

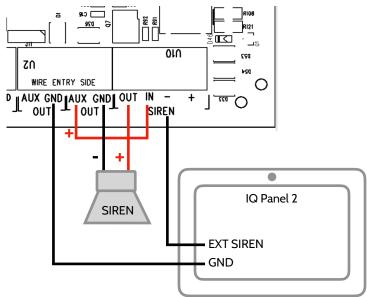
FCC ID: 2ABBZ-RF-CHW-FIRE

IC: 11817A-RFCHWFIRE

ALT SIREN WIRING - A



Optional Siren Relay wiring using GND (-) and IQ Panel 2 "EXT Siren" output



Optional Siren Relay wiring using 12v (+) and IQ Panel (GEN1) "Buzzer" output

