



Q4C Controller & Alarm Communicator

The Q4C is a multi-channel controller display and alarm unit that utilizes digital communications to interface with a maximum of four (4) remote digital transmitter/sensors. This series provides reliable measurement of a wide variety of toxic gases such as CO, NO₂, NH₃, H₂S, SO₂, Refrigerants, and Combustibles. The RS-485 communication is connected via a 4-wire, multidrop daisy chain configuration to reduce the overall installation cost of the system. Alarm setpoints are set through the front keypad or through supplied software that is downloaded to the controller from a PC or laptop computer. Common relay configurations include voting, averaging, delay on actuation and de-actuation, normally or not-normally energized and latching. The audible alarm has three buzzer settings; continuous, intermittent

and double-tap intermittent. The Q4C has a dedicated 24 VDC transistor output terminal for horn and strobe. Available options include; a four (4) SPDT relay board, an analog output board that features 4-20 mA or 2-10 VDC outputs assignable as averaging or peak mode, and an RS-485 output board to communicate with an M-CONTROLLER. The Q4C comes standard with a 2 x 8-character backlit display, key pad, software CD and interface cable. Refer to all applicable Federal, State, Provincial and Local Health and Safety laws and regulations before using these products.

Applications: Underground Parking Garages, Water Treatment Plants, Municipal Service Garages, Aircraft Hangers, Chiller Monitoring, Warehouses, Automobile Dealerships & Battery Charging / Storage

The Q4C Series is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

PRODUCT SPECIFICATIONS

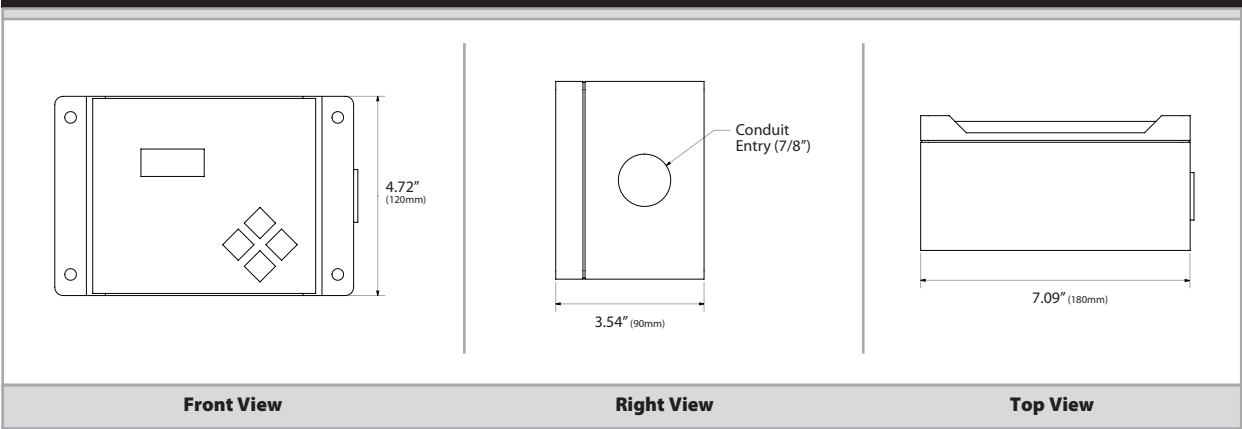
Input Power:	24V +/- 4V AC or DC
Fuse:	F1: 4A slo-blo F2: 1A very fast
Enclosure Type:	NEMA 4X Type (General Purpose)
Enclosure Material:	ABS Plastic
Operating Temperature Range:	Industrial: -20° to +50° C (-4° to 122° F)
Operating Humidity Range:	Continuous: 5 to 95% RH, non-condensing Intermittent: 0 to 99% RH, non-condensing
Input Types:	RS-485 digital port for up to 4 QEL transmitter/sensors RS-232 programming port using RJ-11 connector
Output Ports:	RS-485 to host M-CONTROLLER RS-232 programming port using RJ-11 connector 4-20 mA signals scalable
LED Status Lights:	TX/RX, Relay 1, Relay 2, Relay 3 & Relay 4
Recommended Cable:	Power: Twisted shielded pair Communication: (RS-485) - Belden 9841 or equivalent twisted shielded pair, 120 Ohm
Panel Controls:	4 tactile and audible keypad
Audio Indicator:	24 VDC transistor outputs, buzzer, strobe, horn
Relay Outputs:	4 SPDT rated 10 Amps resistive 250 VAC / 30 VDC
Relay Assignment:	Independent, individually set to one or all transmitter/sensors
Time Delays:	Individually set, make, break, average, and voting, 0 to 59 minutes
LCD Digital Display:	2 x 8 back-lit LCD displaying transmitter address, gas type, concentration and alarm status
Display Scroll Rate:	Adjustable: 1 - 9 seconds
Power Supply Output:	24V supplied externally through controller
Product Dimensions:	7.09" (180.00 mm) x 4.72" (120.00 mm) x 3.54" (90.00 mm)
Product Weight:	1.87 lbs (4.12 kg)

Note: Sensors and system should be scheduled to be tested for accuracy and functionality every 6 months for toxic, and every 3 months for combustible | Recalibrate or replace sensor boards if necessary





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: Q4C-X-R00 -OR- 125959

Model #	Item #	Description
Q4C-X-R00	125959	Controller with M-View Software, 4 x SPDT Relay Board (10 Amps)
Q4C-X-RT0	130765	Controller with M-View Software, 4 x SPDT Relay Board (10 Amps), Analog Output Board (4-20 mA or 2-10 VDC)

ACCESSORIES ORDERING

Model # Example: 84330-014-000 -OR- 132781

Model #	Item #	Description
84330-014-000	132781	M-View CD for M-Controller / Q4C Controller
M-SWITCH	127160	M-Switch for M-Controller / Q4C Controller
84330-013-000	126147	Programming Cable (Included with Q4C)

ACCESSORIES ORDERING | HORN STROBE

Model # Example: FSIG-SLM500A -OR- 136476

Model #	Item #	Description
FSIG-SLM500A	136476	Streamline Horn and Strobe (Amber)
FSIG-SLM500B	142976	Streamline Horn and Strobe (Blue)
FSIG-SLM500G	143013	Streamline Horn and Strobe (Green)
FSIG-SLM500R	143132	Streamline Horn and Strobe (Red)

ACCESSORIES ORDERING | MOUNTING BASE

Model # Example: FSIG-SLMBW-012-024GY -OR- 136477

Model #	Item #	Description
FSIG-SLMBD-012-024GY	142977	Deep Base for FSIG-SLM500 Series; Gray
FSIG-SLMBW-012-024GY	136477	Wall Mount Base for FSIG-SLM500 Series; Gray

Note: See Strobe & Alarm Data Sheet if required

