



## GAS CONTROLLER SERIES

The Q4C-II is a multi-channel controller and alarm unit that can connect with up to four remote transmitter/sensors to measure various toxic gases. It uses **RS-485 communication** in a 4-wire daisy chain setup to lower installation costs. Alarm setpoints can be configured via the front keypad or software. It features multiple relay configurations, three buzzer settings, and 24 VDC outputs for a horn and strobe. The controller includes a USB port for PC software access and an additional RS-485 port that can be set for **Modbus RTU or BACnet/IP protocols**. It comes with a back-lit display, keypad, software, and interface cable.

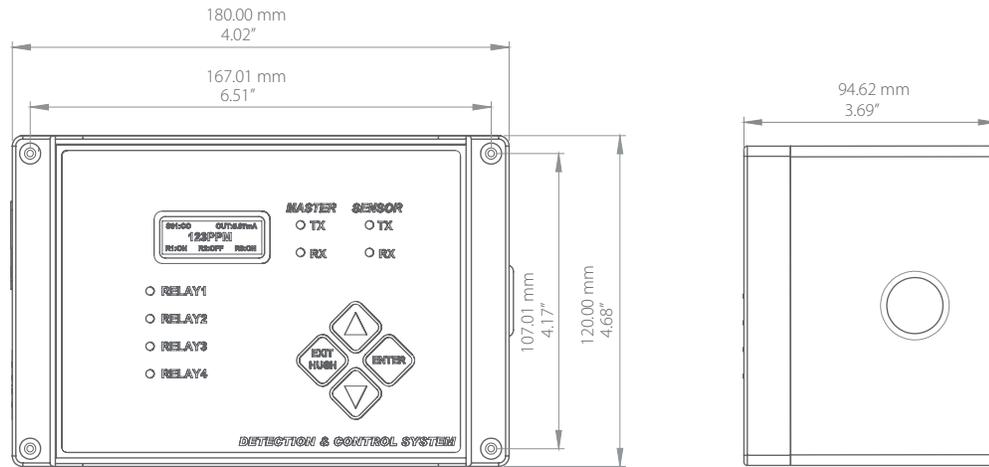
- **Serial Port Connection:** Connects to four transmitter/sensors.
- **Daisy Chain Configuration:** Uses four wires (two for power, two for communication) to link sensors, reducing wiring and conduit needs.
- **Cost Reduction:** Minimizes installation costs by reducing the amount of wire and conduit required.
- **Relays and Outputs:** Provides four relays and BAS outputs.
- **System Optimization:** Engineering can review and recommend system layouts to optimize cost savings.

## SPECIFICATIONS

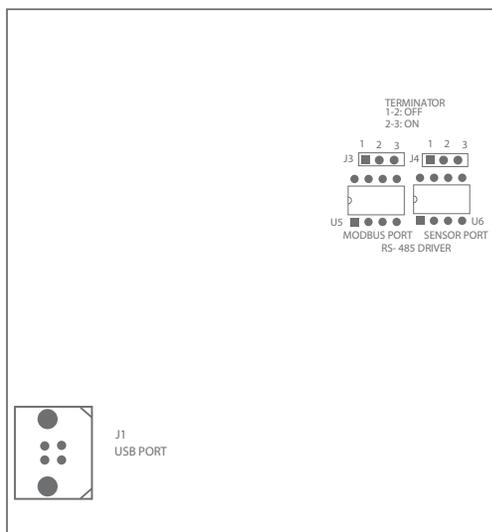
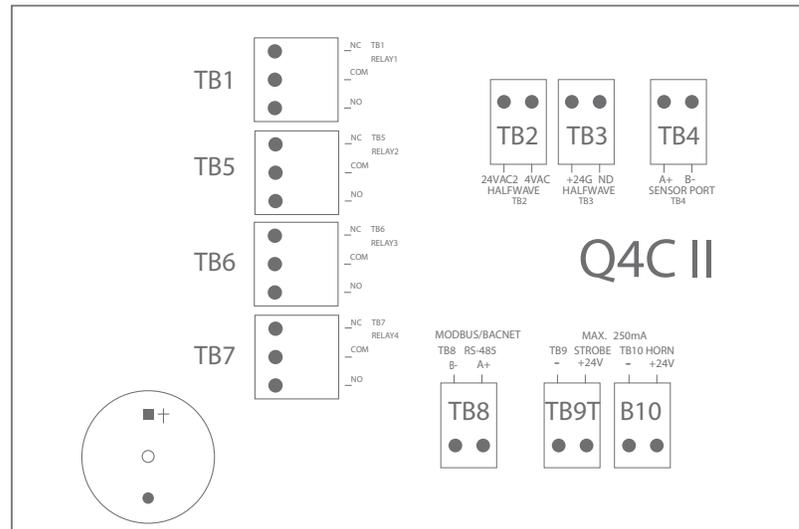
POWER SUPPLY	24 V +/- 4 VAC or DC
FUSE	<b>F1:</b> 4 A slo-blo <b>F2:</b> 1 A very fast
CABLE SPECIFICATION	Power - Twisted shielded pair Communication - Belden 9841 or equivalent twisted shielded pair, 120 ohm
POWER SUPPLY OUTPUT	24V supplied externally through controller
INPUT TYPES	Max 4 channels Digital sensor
OUTPUT TYPES	See databus communication
RELAYS	4 onboard SPDT rated 10 Amps resistive 7.5 Amps inductive at 240VAC/30VDC
RELAYS ACTIVATION	Individually set, make, break, average, and voting, 0 to 59 minutes
DISPLAY AND PANEL CONTROL	4 x 8 back-lit LCD displaying transmitter address, gas type, concentration and alarm status 4 x tactile and audible Keypad
DISPLAY SCROLL RATE	Adjustable 1-9seconds
PANEL INDICATOR	Led Status lights TX/RX: Relay 1 Relay 2 Relay 3 Relay 4
BUZZER	24 VDC transistor Output terminals
HORN AND STROBE	Two relay dry contact 24VDC (750mA Max)
DATABUS COMMUNICATION	Modbus RTU and BACnet Optional through RS-485 port
TEMPERATURE SPECIFICATION	<b>Storage:</b> 0°C to 20°C (32°F to 68°F) <b>Operating:</b> -20°C to 50°C (-4°F to 122°F)
HUMIDITY SPECIFICATION	Continuous 5 to 95% RH, non-condensing Intermittent 0 to 95% RH, non-condensing
ENCLOSURE	NEMA 4X
ENCLOSURE MATERIAL	ABS plastic
DIMENSIONS	180 x 120x 90 mm (7" x 4.7" x 3.5")
WEIGHT	Less than 680g (1.5 lbs)

*Ensure a complete understanding of all applicable Federal, State, Provincial and Local Health and Safety laws and regulations before using these products.*

**DIMENSIONS**



**WIRING INFORMATION**



TERMINAL	FUNCTION
TB1 TB5 TB6 TB7	NC: Normally Close COM: Common NO: Normally Open 4 x Relays Outputs
TB2	24VAC 24VDC Power IN Full Wave
TB3	24VAC 24VDC Power IN Half Wave
TB4	A+ B- RS-485 Sensor Port
TB8	A+ B- 1x RS-485 MODBUS/BACnet Port
TB9	+24V - Strobe Output Max250mA
TB10	+24V - Horn Output Max250mA
J3 J4	1-2 = OFF 2-3 = ON Terminator Jumper
J1	USB Port for M-View

**ACCESSORIES**

BAC-BOX-O-G	BAC-BOX BACnet Output Module for Q-Controller, Q4C-II & M-Controller-2
R-SWITCH-A-G	R-Switch Series Remote Switch for M-Controller-II & Q4C-II
M-SWITCH-A-G	M-Switch Series Remote Switch for M-Controller-II & Q4C-II

**ORDERING**

PART NUMBER
Q4C-II-A-G