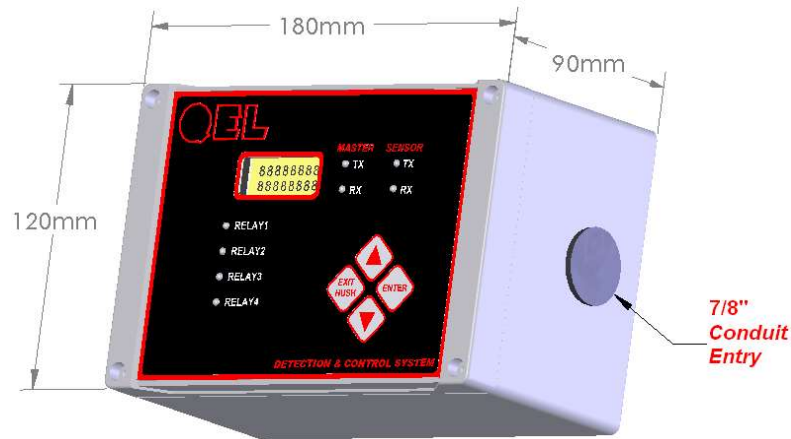
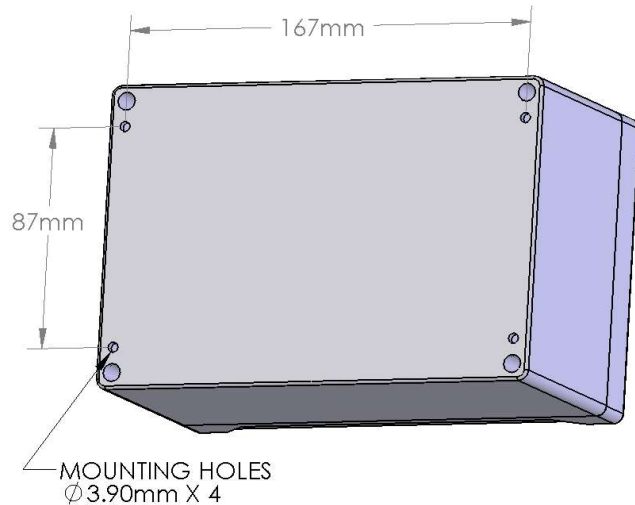


Physical Dimensions:

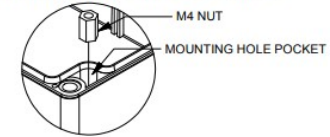
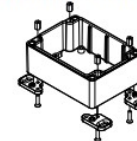


Installation Holes:

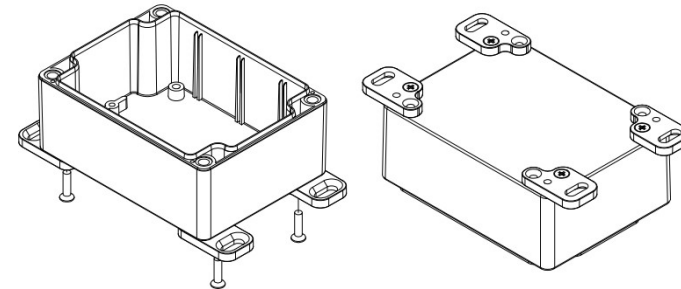
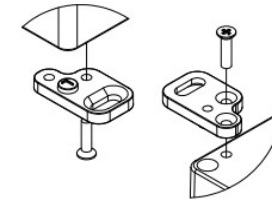
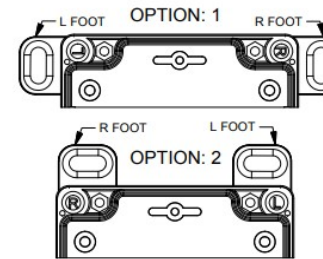


The controller also comes with a mounting feet kit as an option. The same wall mounting holes can be used to install the feet kit.

1. PLACE THE M4 NUTS INSIDE THE MOUNTING HOLE POCKET.



2. LINE UP LARGE HOLE ON THE BOX WITH LETTERS ON THE FEET. THERE ARE TWO OPTIONS FOR THE MOUNTING FEET.



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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/32$
ANGULAR:
MACH $\pm .5$ degrees BEND \pm
TWO PLACE DECIMAL $\pm .02$
THREE PLACE DECIMAL $\pm .010$
INTERPRET GEOMETRIC
TOLERANCING PER:
MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	XY	2021/12/06
CHECKED	XY	2021/12/06
ENG APPR.	XY	2021/12/06
MFG APPR.		
Q.A.		
COMMENTS:		

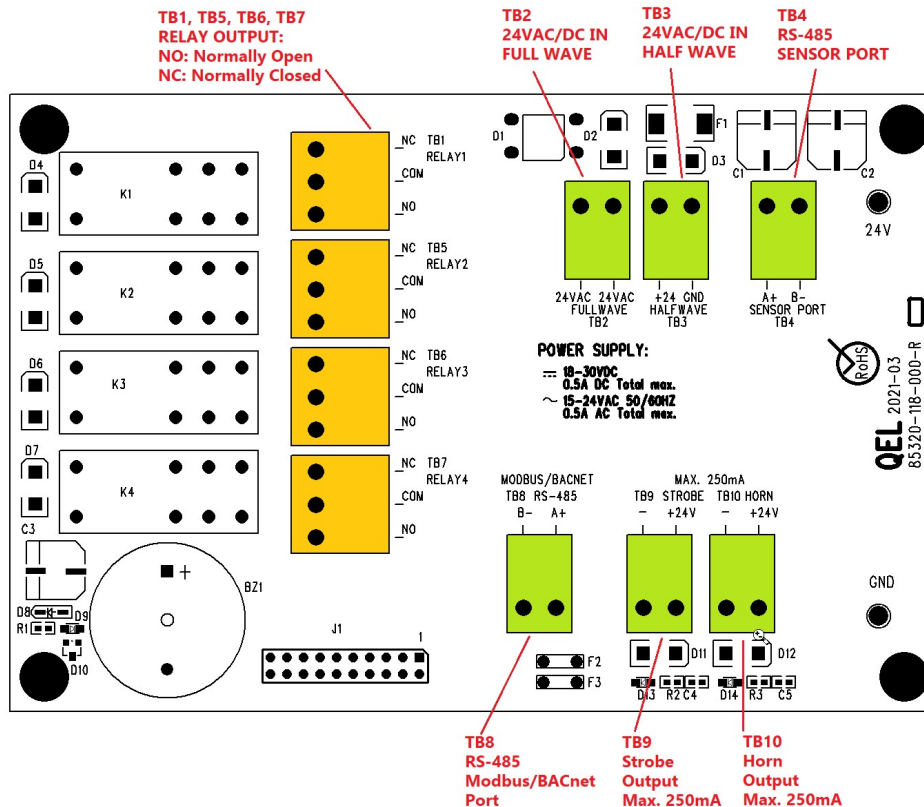
Quatrosense Environmental Ltd

TITLE:
**Q4C-II
INSTALLATION DRAWING**

SIZE	DWG. NO.	REV
B	85350-102-000	A

SCALE: 1:2 WEIGHT: SHEET 1 OF 5

Connection:



Power Supply:

The Q4 Controller power supply Voltage requirements are nominally 24VAC/DC.

NOTE: Q4-Controller II has full-wave rectifier and half-wave rectifier circuit on board for flexibility. You will damage devices if you mix half wave and full wave rectifiers on the same AC source. Use extreme caution when sharing a common AC source. Sharing a common DC source is less problematic.

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	See Sheet1	-	-

SPECIFICATION

INPUT POWER:

24VDC nominal, range: 18 to 30VDC
24VAC nominal, range: 15 to 24VAC

FUSE:

F1: 750mA Polyswitch
F2/3: 250mA Polyswitch

DISPLAY:

128 x 32 LCD Display c/w Backlight

INDICATOR:

Master RX TX, Slave RX TX, Relay 1 to Relay4 status

KEYPAD:

4 Tactile & Audible Keypad

STROBE, HORN:

24 VDC Transistor Output Terminals

INPUTS:

max. 4 Channel Digital Sensor

Modbus RTU Port or BACnet Port:

RS-485 Modbus RTU or BAC-Box RS-485 port

Relays:

4 x Relay 5A max. Resistive 250VAC, 30VDC

ENCLOSURE:

IP 66 & NEMA 4*, 4X*, 12 & 13, UL listed 508 listed (File#E65324)

OPERATING TEMPERATURE:

-20 °C TO 50 °C

AMBIENT HUMIDITY:

5% TO 95% RH (NON- CONDENSING)

SIZE:

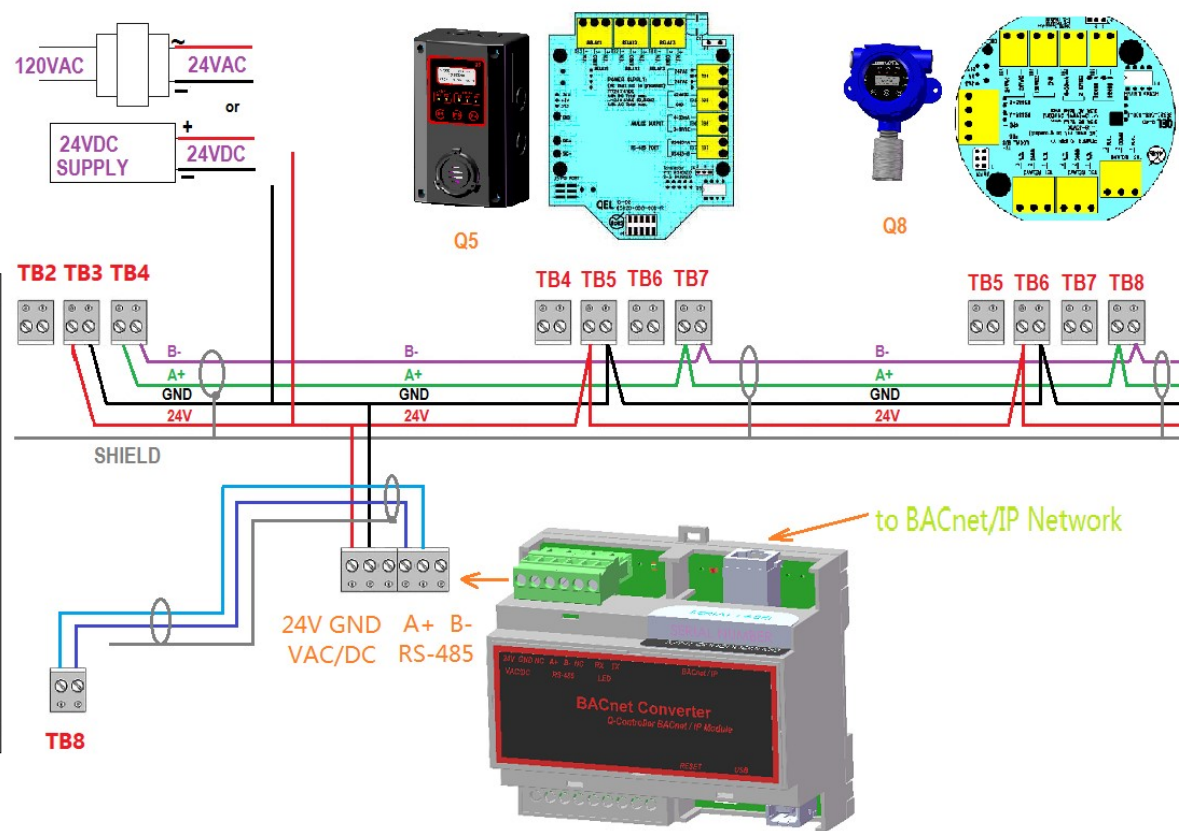
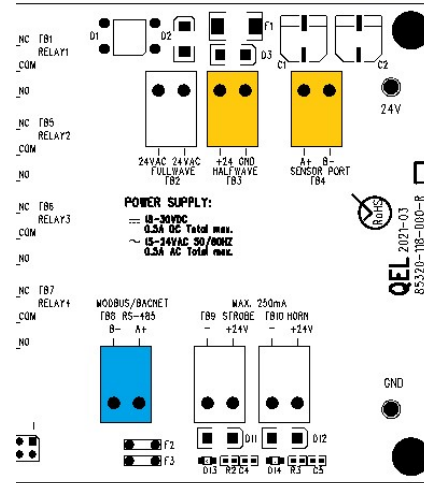
180mm X 120mm X 90mm

WEIGHT:

LESS THAN 1.5lbs (0.680 kg)

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Quatrosense Environmental Ltd
		DRAWN	2021/12/06	
DIMENSIONS ARE IN INCHES		CHECKED	2021/12/06	TITLE: Q4C-II INSTALLATION DRAWING
TOLERANCES:		ENG APPR.	2021/12/06	
FRACTIONAL ±		MFG APPR.		SIZE DWG. NO. REV B 85350-102-000 A
ANGULAR: MACH ± BEND ±		Q.A.		
TWO PLACE DECIMAL ±		COMMENTS:		SCALE: 1:2 SHEET 2 OF 5
THREE PLACE DECIMAL ±				
INTERPRET GEOMETRIC TOLERANCING PER:				
MATERIAL				
FINISH				
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

RS-485 Sensor Port and BAC-Box Installation

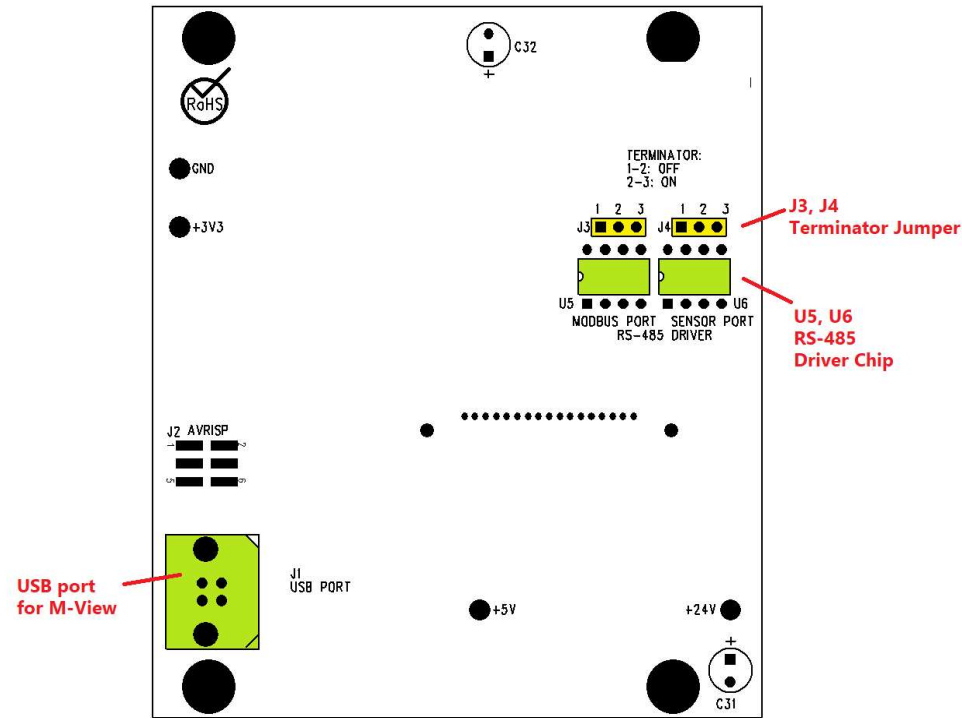


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				DRAWN		XY	2021/12/06		Quatrosense Environmental Ltd		
				CHECKED		XY	2021/12/06				
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				MFG APPR.							
				Q.A.		XY	2021/12/06		SIZE DWG. NO. REV		
				COMMENTS:							
				MATERIAL				B 85350-102-000 A			
				FINISH							
NEXT ASSY		USED ON		APPLICATION		DO NOT SCALE DRAWING		SCALE: 1:4 SHEET 3 OF 5			

Quatrosense Environmental Ltd	
TITLE:	
Q4C-II	
INSTALLATION DRAWING	
SIZE	DWG. NO.
B	85350-102-000
SCALE: 1:4	SHEET 3 OF 5

Main Board Bottom View



Terminator Enable/Disable?

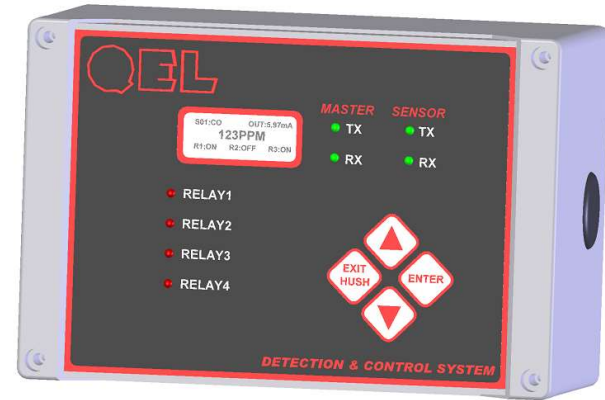
The terminator on each end of the RS485 loop is designed to match the electrical impedance characteristic of the twisted pair loop, and will prevent signal echoes from corrupting the data on the line. The terminator should be enabled on BOTH ends of the RS485 loop. Short and medium length modbus/485 loops can operate without the terminating resistor. Longer runs may require the terminating resistors. But adding terminator dramatically increases power consumption.

Twisted Pair?

We recommend using BELDEN 9841 for communications. This wire has 120 ohm input impedance, which will eliminate RS-485 communication problems.

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	See Sheet1	-	-



Controller Location:

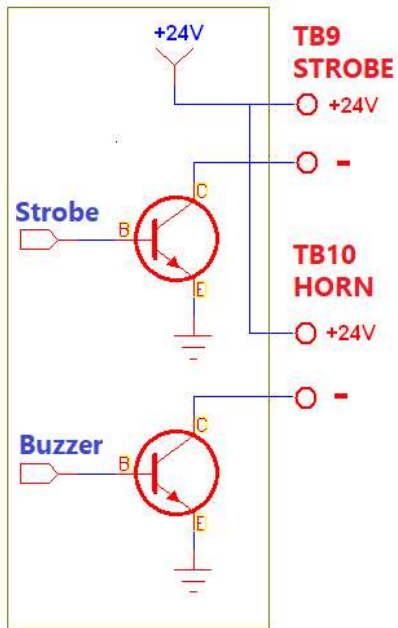
The Q4 Controller is designed and certified for installation in a fixed location where is not subject to shock and vibration. Please observe the temperature and humidity specifications above for ambient conditions. Observe the possibility of leaks or possible water damage from cleaning done in the area.

The mounting height and location should provide easy access to the wiring terminals and front-panel. Backlighting is provided for the display in case of low lighting conditions.

It is recommended that controllers be installed 5 feet (1.5m) above the floor, at approximate eye level. Securely mount the controller using the appropriate screws.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Quatrosense Environmental Ltd		
		DIMENSIONS ARE IN INCHES	DRAWN	XY	2021/12/06	TITLE: Q4C-II INSTALLATION DRAWING		
		TOLERANCES:	CHECKED	XY	2021/12/06			
		FRACTIONAL: ±	ENG APPR.	XY	2021/12/06			
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV B 85350-102-000 A		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:2 SHEET 4 OF 5		
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

Strobe and Horn Outputs:



The strobe and horn outputs are 24 VDC transistor outputs
The maximum current is not more than 250mA.

Tips:

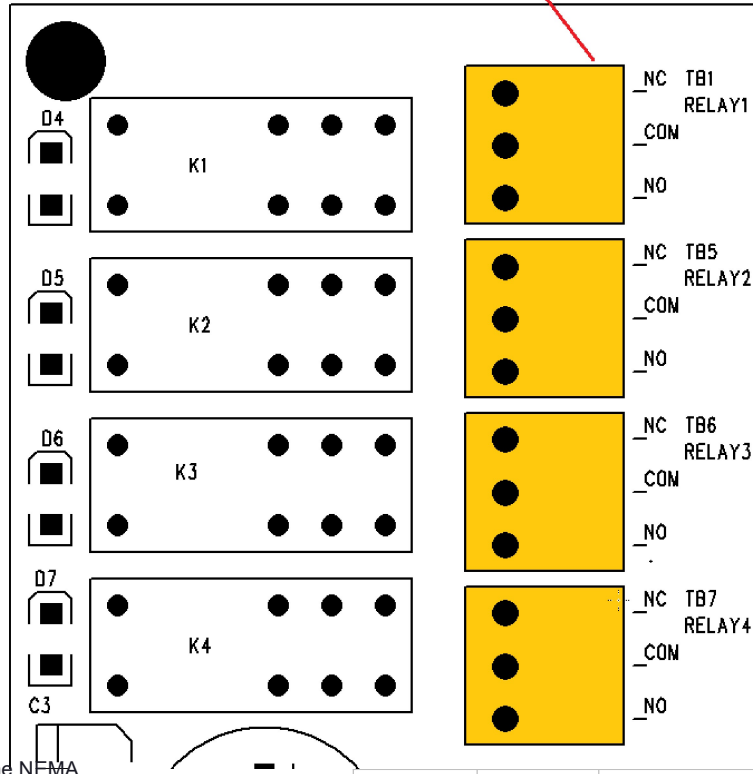
You might drill an additional access hole to bring the wires into the 4X enclosure. The access hole should be drilled on the side of the enclosure.

Warning:

Be sure to look inside the unit prior to drilling so that to make sure there is sufficient clearance for the hole and fitting that you are using.

Seal conduit to prevent foreign material from entering the enclosure.

**TB1, TB5, TB6, TB7
RELAY OUTPUT:
NO: Normally Open
NC: Normally Closed**



Relay Outputs:

NC: Normally Closed
COM: Common
NO: Normally Open

Relay1-4:

5.0 A maximum resistive 250VAC, 30 VDC
3.7 A maximum inductive 250VAC
3.7 A maximum inductive 30 VDC

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Quatrosense Environmental Ltd		
		DIMENSIONS ARE IN INCHES		DRAWN	XY			2021/12/06
		TOLERANCES:		CHECKED	XY			2021/12/06
		FRACTIONAL ±		ENG APPR.	XY			2021/12/06
		ANGULAR: MACH ± BEND ±		MFG APPR.			TITLE: Q4C-II INSTALLATION DRAWING	
		TWO PLACE DECIMAL ±						
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.				
		MATERIAL		COMMENTS:			SIZE DWG. NO. REV B 85350-102-000 A	
		FINISH						
NEXT ASSY		USED ON					SCALE: 2:1 SHEET 5 OF 5	
APPLICATION		DO NOT SCALE DRAWING						