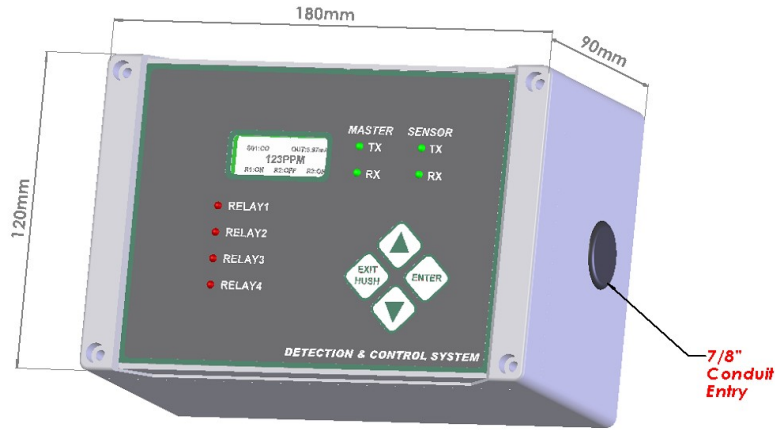


8 7 6 5 4 3 2 1

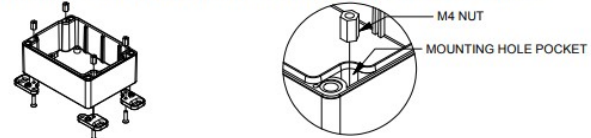
| REVISIONS |      |                 |            |      |       |          |
|-----------|------|-----------------|------------|------|-------|----------|
| ECN       | REV. | DESCRIPTION     | DATE       | DRAW | CHECK | APPROVED |
| 1258      | A    | Initial Release | 2024/10/17 | XY   | XY    | XY       |

# Physical Dimensions:

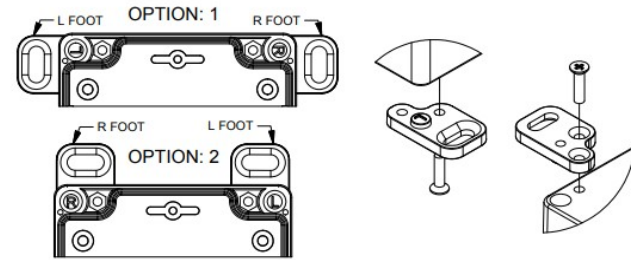


The controller also comes with a mounting feet kit as an option. The same wall mounting holes can be used to install the feet kit.

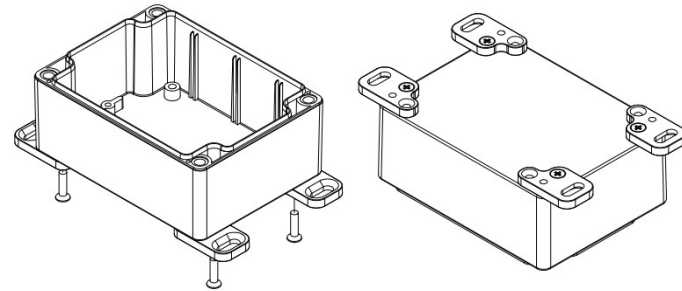
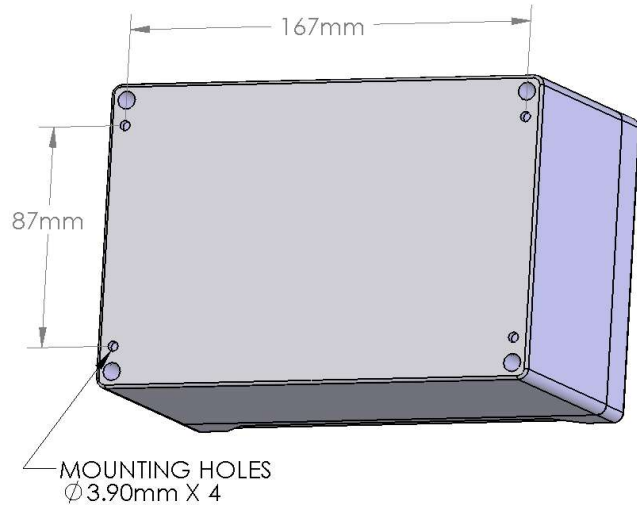
1. PLACE THE M4 NUTS INSIDE THE MOUNTING HOLE POCKET.



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



# Installation Holes:

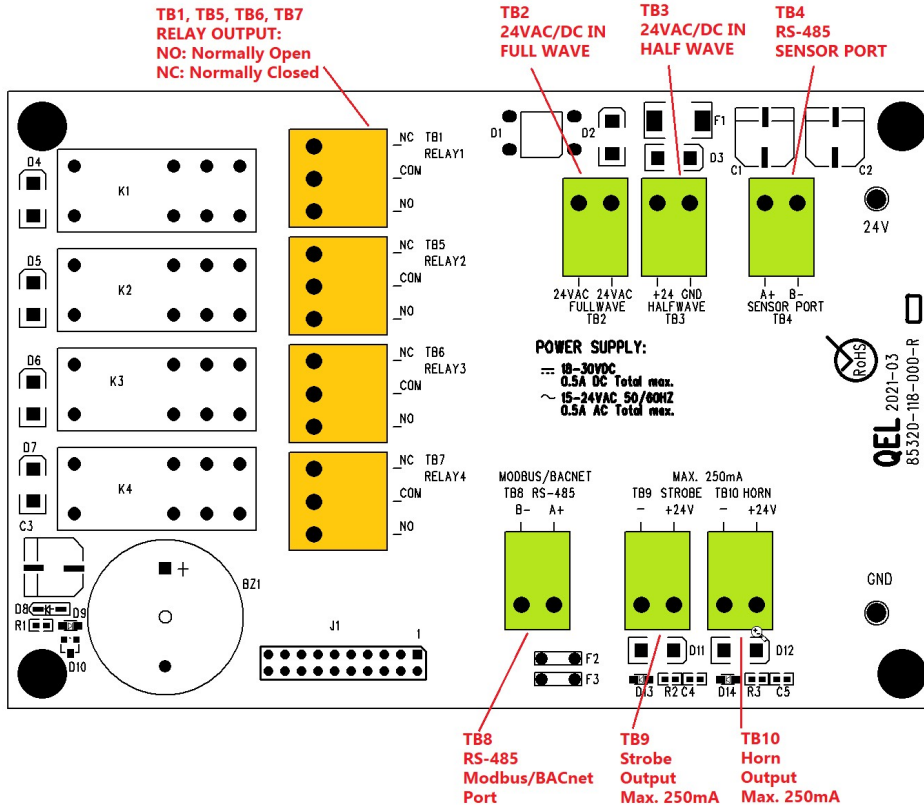


**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF Quatrosense Environmental Ltd. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF Quatrosense Environmental Ltd. IS PROHIBITED.

|             |         |  |  |           |            |  |
|-------------|---------|--|--|-----------|------------|--|
|             |         | UNLESS OTHERWISE SPECIFIED:  |  | NAME      | DATE       | Greystone Energy Systems Inc.                        |
|             |         | DIMENSIONS ARE IN INCHES   |  | DRAWN     | 2024/10/17 |  |
|             |         | TOLERANCES:  |  | CHECKED   | 2024/10/17 |  |
|             |         | FRACTIONAL: ± 1/32   |  | ENG APPR. | 2024/10/17 |  |
|             |         | ANGULAR: MACH ± .5 degrees BEND ± TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .010 |  | MFG APPR. |            |  |
|             |         | INTERPRET GEOMETRIC TOLERANCING PER:   |  | Q.A.      |            | TITLE:<br>Q4C-II, GES<br>INSTALLATION DRAWING        |
|             |         | MATERIAL:  |  | COMMENTS: |            |  |
| NEXT ASSY   | USED ON | FINISH   |  |           |            | SIZE DWG. NO. REV<br><b>B</b> 85350-102-005 <b>A</b> |
| APPLICATION |         | DO NOT SCALE DRAWING   |  |           |            | SCALE: 1:2 WEIGHT: SHEET 1 OF 5                      |

8 7 6 5 4 3 2 1

# Connection:



| 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)

## 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.

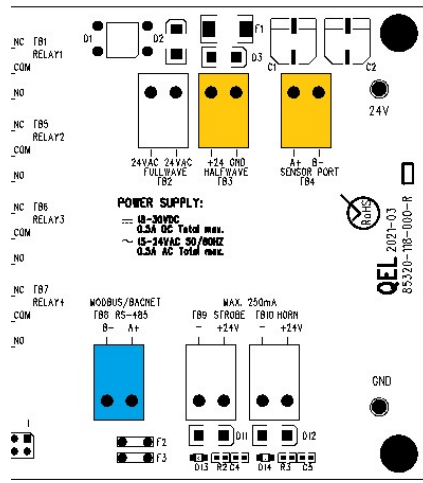
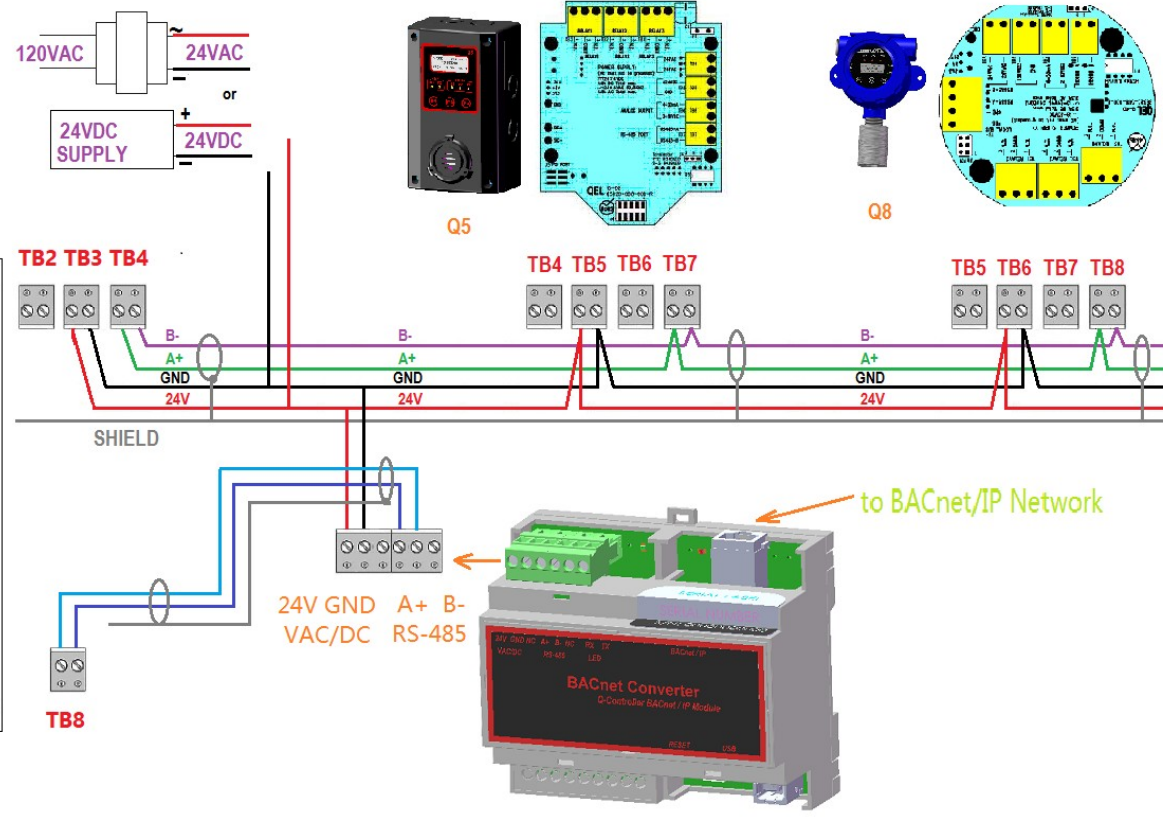
**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF Quatrosense Environmental Ltd. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF Quatrosense Environmental Ltd IS PROHIBITED.

|                                      |         |                      |      |                               |            |
|--------------------------------------|---------|----------------------|------|-------------------------------|------------|
| UNLESS OTHERWISE SPECIFIED:          |         | NAME                 | DATE | Greystone Energy Systems Inc. |            |
| DIMENSIONS ARE IN INCHES             |         | DRAWN                | XY   |                               | 2024/10/17 |
| TOLERANCES:                          |         | CHECKED              | XY   |                               | 2024/10/17 |
| FRACTIONAL: ±                        |         | ENG APPR.            | XY   |                               | 2024/10/17 |
| ANGULAR: MACH ± BEND ±               |         | MFG APPR.            |      |                               |            |
| TWO PLACE DECIMAL ±                  |         | Q.A.                 |      |                               |            |
| THREE PLACE DECIMAL ±                |         | COMMENTS:            |      |                               |            |
| INTERPRET GEOMETRIC TOLERANCING PER: |         |                      |      |                               |            |
| MATERIAL:                            |         |                      |      |                               |            |
| FINISH:                              |         |                      |      |                               |            |
| NEXT ASSY                            | USED ON |                      |      |                               |            |
| APPLICATION                          |         | DO NOT SCALE DRAWING |      |                               |            |

|                                     |               |              |
|-------------------------------------|---------------|--------------|
| TITLE:                              |               |              |
| Q4C-II, GES<br>INSTALLATION DRAWING |               |              |
| SIZE                                | DWG. NO.      | REV          |
| <b>B</b>                            | 85350-102-005 | <b>A</b>     |
| SCALE: 1:2                          |               | SHEET 2 OF 5 |

# RS-485 Sensor Port and BAC-Box Installation

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



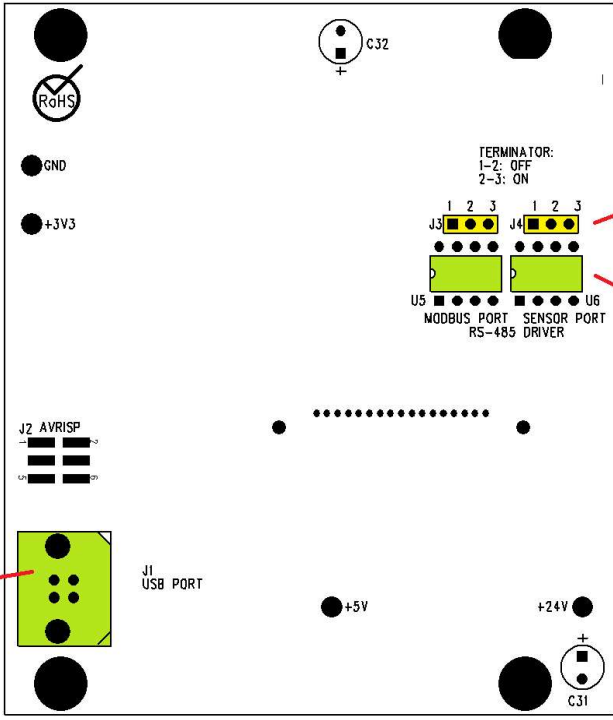
**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

|             |                      |                                      |  |           |            |
|-------------|----------------------|--------------------------------------|--|-----------|------------|
|             |                      | UNLESS OTHERWISE SPECIFIED:          |  | NAME      | DATE       |
|             |                      | DIMENSIONS ARE IN INCHES             |  | DRAWN     | 2024/10/17 |
|             |                      | TOLERANCES:                          |  | CHECKED   | 2024/10/17 |
|             |                      | FRACTIONAL: ±                        |  | ENG APPR. | 2024/10/17 |
|             |                      | ANGULAR: MACH ± BEND ±               |  | MFG APPR. |            |
|             |                      | TWO PLACE DECIMAL ±                  |  | Q.A.      | 2024/10/17 |
|             |                      | THREE PLACE DECIMAL ±                |  | COMMENTS: |            |
|             |                      | INTERPRET GEOMETRIC TOLERANCING PER: |  |           |            |
|             |                      | MATERIAL                             |  |           |            |
|             |                      | FINISH                               |  |           |            |
| NEXT ASSY   | USED ON              |                                      |  |           |            |
| APPLICATION | DO NOT SCALE DRAWING |                                      |  |           |            |

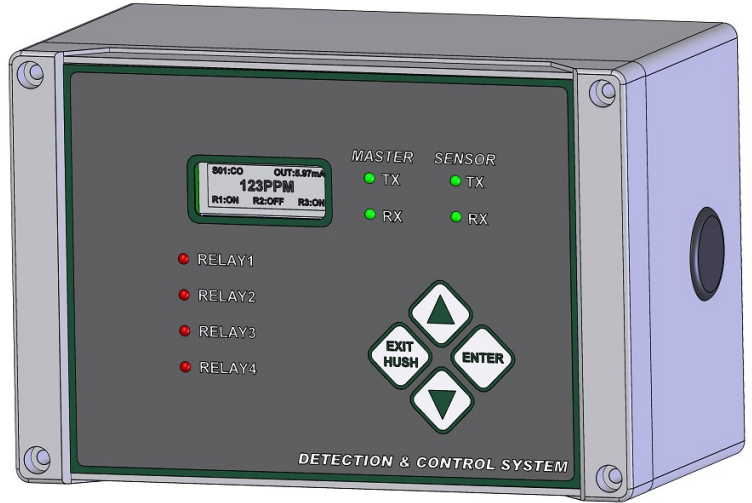
Greystone Energy Systems Inc.  
 TITLE:  
**Q4C-II, GES  
 INSTALLATION DRAWING**  
 SIZE DWG. NO. REV  
**B** 85350-102-005 **A**  
 SCALE: 1:4 SHEET 3 OF 5

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

### Main Board Bottom View



USB port for M-View



### 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.

### 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.

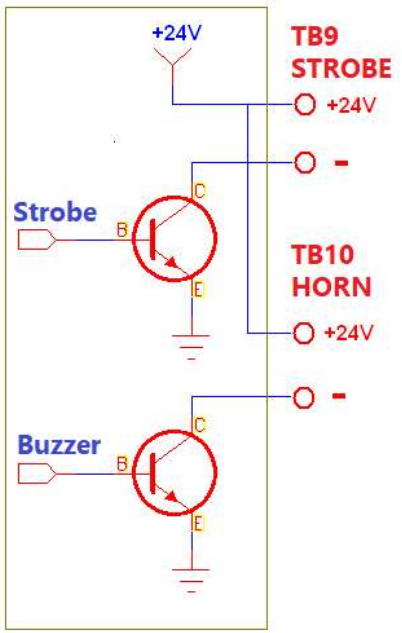
**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF QuattroSense Environmental Ltd. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF QuattroSense Environmental Ltd IS PROHIBITED.

|                                      |         |                      |      |                               |            |
|--------------------------------------|---------|----------------------|------|-------------------------------|------------|
| UNLESS OTHERWISE SPECIFIED:          |         | NAME                 | DATE | Greystone Energy Systems Inc. |            |
| DIMENSIONS ARE IN INCHES             |         | DRAWN                | XY   |                               | 2024/10/17 |
| TOLERANCES:                          |         | CHECKED              | XY   |                               | 2024/10/17 |
| FRACTIONAL ±                         |         | ENG APPR.            | XY   |                               | 2024/10/17 |
| ANGULAR: MACH ± BEND ±               |         | MFG APPR.            |      |                               |            |
| TWO PLACE DECIMAL ±                  |         | Q.A.                 |      |                               |            |
| THREE PLACE DECIMAL ±                |         | COMMENTS:            |      |                               |            |
| INTERPRET GEOMETRIC TOLERANCING PER: |         |                      |      |                               |            |
| MATERIAL                             |         |                      |      |                               |            |
| FINISH                               |         |                      |      |                               |            |
| NEXT ASSY                            | USED ON |                      |      |                               |            |
| APPLICATION                          |         | DO NOT SCALE DRAWING |      |                               |            |

|            |                      |              |  |
|------------|----------------------|--------------|--|
| TITLE:     | Q4C-II, GES          |              |  |
|            | INSTALLATION DRAWING |              |  |
| SIZE       | DWG. NO.             | REV          |  |
| <b>B</b>   | 85350-102-005        | <b>A</b>     |  |
| SCALE: 1:2 |                      | SHEET 4 OF 5 |  |

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

# Strobe and Horn Outputs:



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

### Tips:

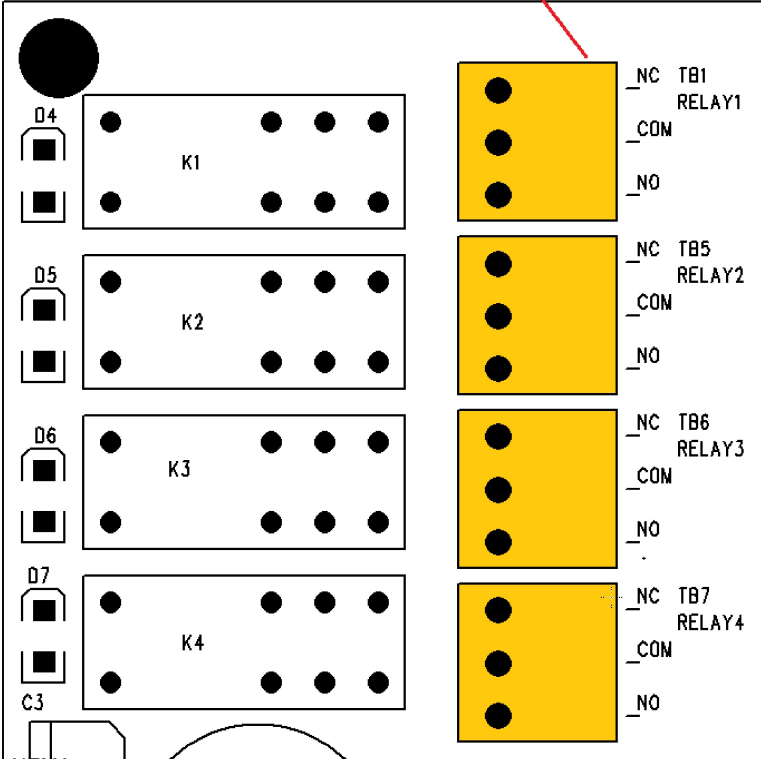
You might drill an additional access hole to bring the wires into the NEMA 4X enclosure. The access hole should be drilled on the side of the enclosure.

### 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

**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF Quatrosense Environmental Ltd. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF Quatrosense Environmental Ltd IS PROHIBITED.

|                                      |  |           |      |   |            |
|--------------------------------------|--|-----------|------|---|------------|
| UNLESS OTHERWISE SPECIFIED:          |  | NAME      | DATE | Greystone Energy Systems Inc.                         |            |
| DIMENSIONS ARE IN INCHES             |  | DRAWN     | XY   |   | 2024/10/17 |
| TOLERANCES:                          |  | CHECKED   | XY   |   | 2024/10/17 |
| FRACTIONAL ±                         |  | ENG APPR. | XY   |   | 2024/10/17 |
| ANGULAR: MACH ± BEND ±               |  | MFG APPR. |      |   |            |
| TWO PLACE DECIMAL ±                  |  | Q.A.      |      |   |            |
| THREE PLACE DECIMAL ±                |  | COMMENTS: |      |   |            |
| INTERPRET GEOMETRIC TOLERANCING PER: |  |           |      | TITLE:<br><b>Q4C-II, GES<br/>INSTALLATION DRAWING</b> |            |
| MATERIAL                             |  |           |      |   |            |
| FINISH                               |  |           |      | SIZE DWG. NO. REV                                     |            |
| NEXT ASSY                            |  |           |      | <b>B</b> 85350-102-005 <b>A</b>                       |            |
| USED ON                              |  |           |      | SCALE: 2:1 SHEET 5 OF 5                               |            |
| APPLICATION                          |  |           |      |   |            |
| DO NOT SCALE DRAWING                 |  |           |      |   |            |