# SUBMITTAL

## Room Pressure Monitor

## Part Number:

## PRODUCT SELECTION INFORMATION:

| MODEL | Product Description |
|---|---|
| RP | Room Pressure Monitor |

| CODE | Range |
|---|---|
| 01 | ± 1"WC |
| 02 | ± 0.5"WC |
| 03 | ± 0.25"WC |
| 04 | ± 0.125"WC |
| 05 | ± 250 Pa |
| 06 | ± 125 Pa |
| 07 | ± 60 Pa |
| 08 | ± 30 Pa |

| CODE | Options |
|---|---|
| LC | LCD display-Displays the differential pressure value and the alarm setpoint value on demand |
| A | Alarm functions-LED, Silence switch, Buzzer out, Relay out and Setpoint control |
| SP | Stainless plate pick-up port |
| AE | Executive (AE) pick-up port |

| RP | 04 | A SP |
|---|---|---|

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

**EXAMPLE: Room pressure, ± 0.125"WC, Alarm Functions and S/S pick-up port**
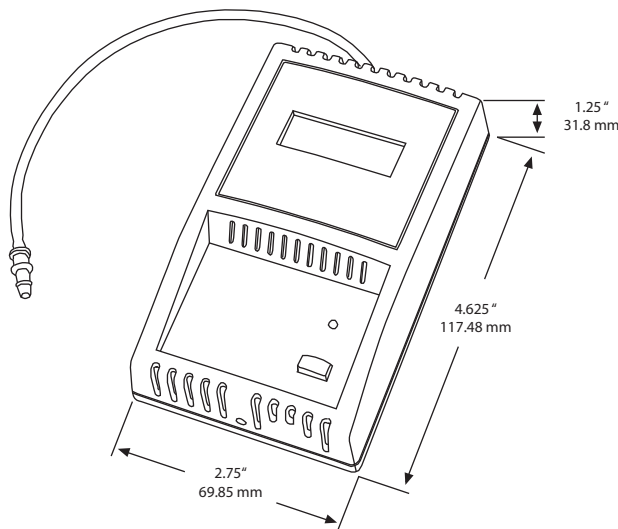
The RP series is used to measure differential pressure between a room and reference space. It combines precision high sensitivity silicon sensing capabilities and the latest in ASIC technology. Standard features include: LCD, bi-directional pressure ranges, selectable output, and on-board auto zeroing. Available options include, alarm & buzzer features, flashing alarm LED & pick up ports.

| | |
|---|---|
| Accuracy | ± 1% FSO (± 2% FSO for 0.125"WC and 30 Pa ranges) |
| Measurement Type | Differential (two port) |
| Response Time | 0.5 Seconds |
| Over-pressure | 100"WC (24.9 kPa) |
| Output Signal | 4-20 mA (3-wire), 0-5 Vdc or 0-10 Vdc Pin jumper selectable |
| Power Supply | 15-27 Vac, 20-35 Vdc (non-isolated half-wave rectified |
| Power Consumption | <30 mA - Base Model <50 mA - with alarm options <70 mA - with buzzer connected |
| Zero Adjustment | Pushbutton auto-zero (on device or remote |
| Wiring | Screw terminal block (14 - 22 AWG) |
| Pressure Connection | 1/8" ID Flexible tubing |
| Display | 3½ digit LCD, 0.4" digit height |
| Relay Output | N.O. contact, 2.5 amps @ 120 Vac, 2.5 amps @ 30 Vdc |
| Relay Trip Point | Adjustable from Zero to Span via trimpot |
| Relay Delay | 5 seconds on / 5 seconds off |



1.25"
31.8 mm

4.625"
117.48 mm

2.75"
69.85 mm

## Installation:

**For complete installation and wiring details, please refer to the product installation instructions.**

Install the enclosure directly on a standard electrical box about four to five feet from the floor of the area to be controlled. Remove the enclosure cover by snapping the bottom edge loose and then unhook the cover from the base at the top edge. Route any wires through the back of the enclosure base and then through the wiring hole in the circuit board. The enclosure has a multifunction base that has provisions for mounting on many standard electrical boxes. After installation the cover should be locked on by using the setscrew (1/16" or 1.5mm) located at the bottom of the enclosure. The remote pressure pickup (mounted on an electrical wall plate) is typically mounted on the opposite side of the wall outside the room being monitored. It also mounts directly to a standard electrical box about four to five feet from the floor. If the remote buzzer option is used, simply mount it directly to a standard electrical box.
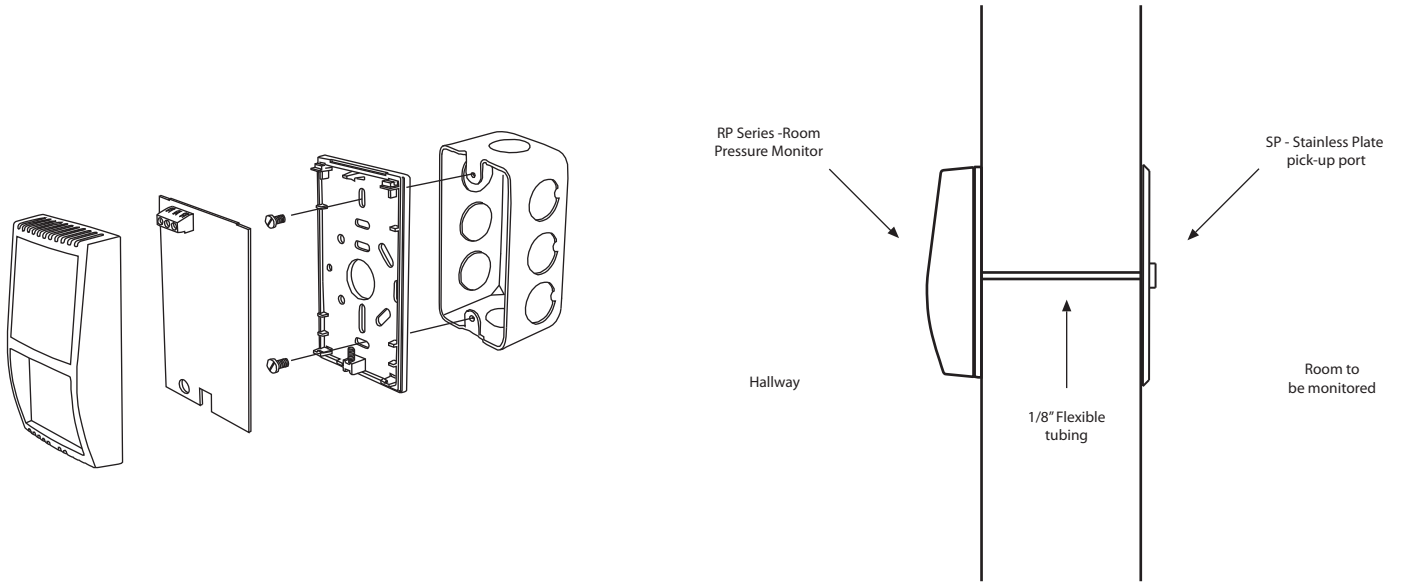
RoHS COMPLIANT

MADE IN CANADA

Certified System

CE

# Typical Installation

RP Series -Room
Pressure Monitor

SP - Stainless Plate
pick-up port

Hallway

Room to
be monitored

1/8" Flexible
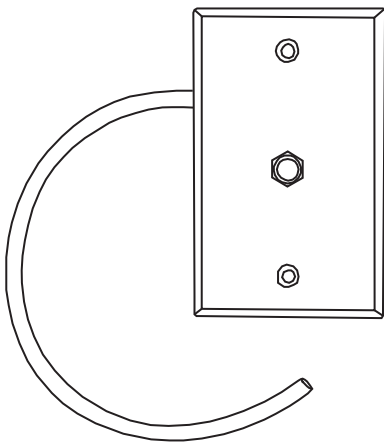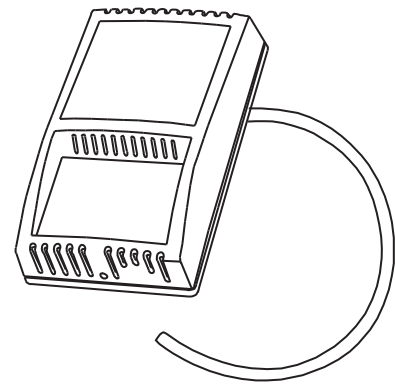tubing

# Accessories

**SP Option
Stainless Plate Pick-up Port
(RPV if ordered separately)**

**AE Option
Executive Pick-up Port
(EPV if ordered separately)**

**AA-1
Audible Alarm**