Ш

ROOM PRESSURE MONITOR RP Series



Precision room pressure control/sensing

FEATURES:

- LCD indication
- Jumper selectable outputs
- · Precision silicon sensor
- Functional and attractive enclosure
- Installer friendly wiring access
- Several ranges available



Peace of mind through reliable pressure monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

DESCRIPTION:

The RP series Room Pressure Monitor is used to measure differential pressure in the range of 0.125 to 1" wc or 30 to 250 Pa.

It combines precision high sensitivity silicon sensing capabilities and the latest ASIC technology to substantially reduce offset errors due to changes in temperature, stability to warm up, long term instability and position sensitivity.

It features an LCD to display the pressure value, several bi-directional pressure ranges and field-selectable output signal types for the most flexible application. The device has an on-board auto-zero function as well as a connection for remote zeroing. It also features an optional alarm output with a variable trip point, a remote buzzer output with silence switch and a flashing alarm LED.

SPECIFICATIONS:

Pressure Ranges	\pm 1" wc, \pm 0.5" wc, \pm 0.25" wc, \pm 0.125" wc
	± 250 Pa, ± 125 Pa, ± 60 Pa, ± 30 Pa

Accuracy	± 1% F.S.O. (±2% F.S.0	O. for 0.125"wc and 30 Pa ranges)
----------	------------------------	-----------------------------------

Differential (two port)

Response Time 0.5 Sec

Thermal Effects $\dots < \pm 3.5\%$ over compensated range

0 - 70 C (32 - 158 F), 10 - 90% RH non-condensing

Power Supply (at transmitter) 15 - 27 Vac, 20 – 35 Vdc (non-isolated half-wave rectified)

Supply Current < 30mA (base model), 50mA (with alarm options),

70mA (with buzzer connected)

Negligible over specified operating range Reverse voltage protected and output limited

4-20 mA (3-wire), 0-5 Vdc or 0-10 Vdc (3-wire), Pin jumper

selectable

550 ohms maximum Current Output Drive Capability. . Voltage Output Drive Capability. . 2 Kohms minimum

Pushbutton auto-zero (on device or remote)

Screw terminal block (14 to 22 AWG)

1/8" ID Flexible tubing

3 1§2 digit LCD, 0.4" digit height Display

N.O. contact, 2.5 Amps @ 120 Vac, 2.5 Amps @ 30 Vdc

Adjustable from ZERO to SPAN via trimpot

5 seconds on / 5 seconds off Relay Delay

Executive Space, 71 W x 119 H x 32mm D (2.8" x 4.7" x 1.25")

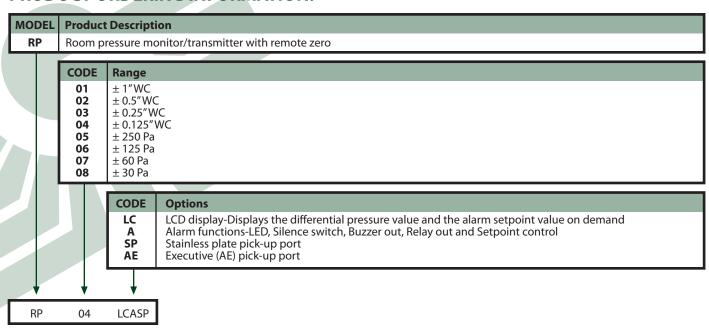








ROOM PRESSURE MONITOR PRODUCT ORDERING INFORMATION:

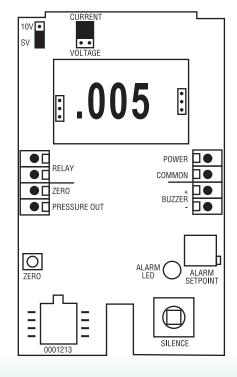


Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

Room pressure sensor, ±0.125" range, c/w LCD, alarm functions and stainless plate pick-up port.

RP04LCASP

PCB/WIRING INFORMATION



Terminal	Function	
POWER	From +24 Vac/dc of controller or power supply	
COMMON	To GND or COMMON of controller	
PRESSURE OUT	To analog input of controller 4-20 mA or 0-5 Vdc or 0-10 Vdc	
ZERO	To digital output of controller for remote zeroing	
RELAY (2)	To digital input of controller or external annunciator	
BUZZER +	To plus of remote buzzer	
BUZZER –	To minus of remote buzzer	
* Comment labels and a sufficient for any		

^{*} Some models do not have all these features







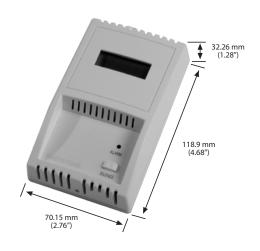
OPTIONS

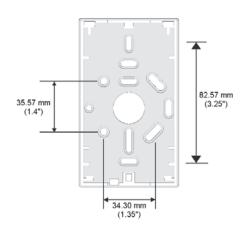
Audible Alarm Part # AA-1 (to be ordered separately)





DIMENSIONS nts





Other GREYSTONE Accuracy by Design Products for the HVAC Professional

- **Temperature Sensors and Transducers**
- **Humidity Transducers**
- **Pressure Transducers**
- **Current Switches and Sensors**
- **Electronic to Pneumatic (IP)**
- **Transducers**
- **Power Supplies**



ACCURACY BY DESIGN

Greystone Energy Systems, Inc. 150 English Drive, Moncton, NB Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com









Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transducers for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.