

RPC SERIES

PRODUCT DESCRIPTION

The RPC Series room pressure monitor/transmitter is used to measure differential pressure in the range of 0.125 to 1"WC or 30 to 250 Pa and provide either an analog or BACnet® compatible signal to a building automation system.

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.

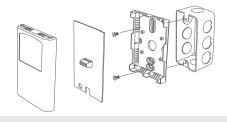
It features an LCD to display the pressure value, several bi-directional pressure ranges and field-selectable output signal types for the most flexible application. The device has an on-board auto-zero function. It features an alarm output with an adjustable trip point for high and low alarm levels,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

TYPICAL INSTALLATION

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

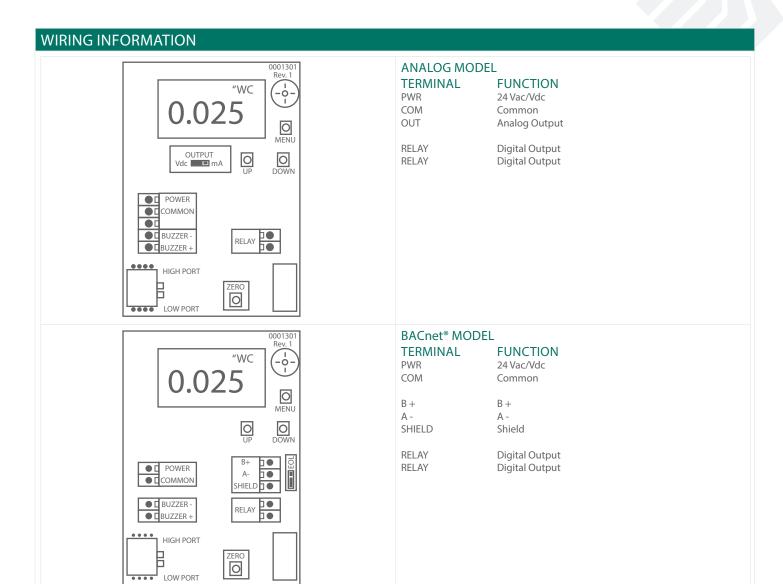
The RPC series can be mounted directly to a single gang electrical box or directly to a wall. If the remote buzzer option is used, simply mount it directly a standard electrical box.

A terminal block connection is provided for connection to the Building Automation System. There are several wiring configurations depending on the options selected.



SPECIFICATIONS		
PRESSURE RANGES	±1", ±0.5", ±0.25", ±0.125" WC ±250, ±125, ±60, ±30 Pa	
ACCURACY	±1% F.S.O. (±2% F.S.O. for 0.125"WC and 30 Pa ranges)	
STABILITY	±1% FS max (1 year)	
THERMAL EFFECTS	<±3.5% FS max, 5 to 50°C (41 to 122°F)	
RESPONSE TIME	0 to 60 seconds (menu selectable)	
PROOF PRESSURE	100"WC (24.9 kPa)	
BURST PRESSURE	200"WC (49.8 kPa)	
OPERATING CONDITIONS	0 to 60°C (32 to 140°F), 10 to 90 %RH non-condensing	
STORAGE TEMPERATURE	-40 to 70°C (-40 to 158°F)	
MEDIA COMPATIBILITY	Dry air and inert gas	
ZERO ADJUSTMENT	Pushbutton auto-zero	
POWER SUPPLY	24 Vac/dc, ±10%	
POWER CONSUMPTION	70 mA max with alarms on (80 mA with BACnet® option)	
OUTPUT SIGNAL	4-20 mA (3 wire), 0-5 Vdc or 0-10 Vdc (3 wire), field selectable	
OUTPUT DRIVE	Current: 750Ω max Voltage: 2000Ω min	
INPUT VOLTAGE EFFECT	Negligible over specified operating range	
PROTECTION CIRCUITRY	Reverse voltage protected and output limited	
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)	
PRESSURE CONNECTIONS	Ports for 1/16" ID tubing (1/8" ID Adapters included)	
ENCLOSURE	White ABS, IP30 (NEMA 1)	
DIMENSIONS	84mm W x 119mm H x 29mm D (3.3" x 4.7" x 1.15")	
WEIGHT	115g (4 oz)	
COUNTRY OF ORIGIN	Canada	
LCD DISPLAY	Size: 38.1mm W x 16.5mm H (1.5" x 0.65") Digit Height: 11.43mm (0.45") Symbols: "WC, Pa Backlight: Enable/disable via menu	
ALARM FUNCTION	Relay Output: N.O. contact, 2 Amps @ 120 Vac or 30 Vdc Relay Trip Point: Upper and lower trip levels adjustable over the pressure range Relay Delay: 0 to 10 minutes (menu selectable) Visual Indication: Setpoint step size is 0.5°C or 1.0°F Audible Indication: On-board buzzer, 85 db on high range (menu selectable) Buzzer Output: Output to control remote audible alarm (Part Number AA-1)	
OPTIONAL BACnet® COMMUNICATIONS	Communications: 2 wires RS-485, BACnet® MS/TP protocol Baud Rate: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 0-127 (factory default is 3)	





ORDERING			
PRODUCT	RPC	Room Pressure Monitor/Transmitter	
PRESSURE RANGES	1 2	±1"WC, ±0.5"WC, ±250 Pa, ±125 Pa ±0.25"WC, ±0.125"WC, ±60 Pa, ±30 Pa	
COMMUNICATIONS	BAC	None (Leave Blank) BACnet® Communications	
OPTIONS	AC SP OP	Continental pick-up port Stainless plate pick-up port Outside pick-up port	
NOTE: Greystone Energy Systems, Inc. reserves the right to ma	ake design m	odifications without prior notice.	



Greystone Energy Systems, Inc. Ph: +1 (506) 853-3057 Fax: +1 (506) 853-6014 North America: 1-800-561-5611 E-mail: mail@greystoneenergy.com

PART NUMBER