

# ROOM PRESSURE MONITORS WITH SPDT RELAY AND ANALOG OUTPUT FOR ROOM-TO-ROOM DIFFERENTIAL PRESSURES

**DISCONTINUED**

## DPG701 Series



OMEGA's DPG701 room pressure monitor uses time-proven sensor technology to monitor critical room-to-room differential pressures. It is wall-mountable, and the installer can choose rear or bottom knockouts for electrical and pressure connections. Housed in a tough polycarbonate NEMA 13 (IEC529, IP65) enclosure, the DPG701 has a clear, gasketed cover that allows easy viewing of digital display and room status. Other features include an SPDT relay (for supplemental controls such as audible alarm or remote status indication) and 3 analog output signals—0 to 5 Vdc, 0 to 10 Vdc, and 4 to 20 mA—which are proportional to the room pressure.

### SPECIFICATIONS

**Accuracy:**  $\pm 1\%$  full scale

**Accuracy of Alarm Output:**  $\pm 1\%$  of setpoint (lights and relays)

**Panel Indicator Lights:** One red and one green LED

**Display:** 3 digit LCD, 13 mm (0.5") high

**Alarm Output:** SPDT relay, contacts rated at 5 A at 30 Vdc or 120 Vac, 4 Vdc at 240 Vac, resistive

**Deadband:** Preset at 5% of range, field adjustable from 1 to 20%

**Analog Outputs:** 0 to 5 Vdc, 2.5 Vdc at zero pressure; 2 mA max. 0 to 10 Vdc, 5 Vdc at zero pressure; 2 mA maximum. 4 to 20 mA sourcing, 12 mA at zero pressure, maximum loop resistance is 580  $\Omega$

**Power Requirements:** 95 to 135/190 to 270 Vac, 50/60 Hz

**Max Power Consumption:** 5 W

**Electrical Connection:**  $\frac{3}{4}$ " terminal strip with #6 screws

**Compatible Media:** Air or non-corrosive, non-explosive gas



Monitor Room-to-Room Pressure Difference, in Pa, kPa, or inH<sub>2</sub>O

DPG701-0.1, shown smaller than actual size.

14.7 psi	1 atm	760 mmHg	101,325 Pa	1.013 bar	29.921 inHg
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**Maximum Momentary Pressure Limit:**  $\pm 6.0$  inH<sub>2</sub>O

**Enclosure Construction:** Glass-filled polycarbonate, flammability rating of UL94 V-1

**Cover Construction:** Clear polycarbonate, flammability rating of UL94 V-2

**Operating Temperature:** 0 to 50°C (32 to 120°F)

**Storage Temperature:** -30 to 70°C (-20 to 160°F)

**Effect of Temperature on Reading:**  $\pm 0.05\%/^{\circ}\text{C}$

**Operating Humidity Range:** 10 to 90% RH

**Weight:** 1.2 kg (2.6 lb)

**Dimensions:** 185 H x 241 W x 114 mm D (7.3 x 9.5 x 4.5")

### To Order

MODEL NO.	RANGE	RESOLUTION
DPG701-0.1	$\pm 0.1$ inH <sub>2</sub> O ( $\pm 25$ Pa)	0.001 inH <sub>2</sub> O (0.1 Pa)
DPG701-0.5	$\pm 0.5$ inH <sub>2</sub> O ( $\pm 125$ Pa)	0.001 inH <sub>2</sub> O (1 Pa)
DPG701-01	$\pm 1.0$ inH <sub>2</sub> O ( $\pm 250$ Pa)	0.01 inH <sub>2</sub> O (1 Pa)

Comes complete with operator's manual.

For optional 24 Vac adaptor, add suffix "-24VAC", no extra charge.

**Ordering Example:** DPG701-0.1, wall-mounted room pressure monitor with range of  $\pm 0.1$  inH<sub>2</sub>O.

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PRESSURE INSTRUMENTS