

Differential Room Pressure Transmitters

- ▶ Low differential pressure ranges are ideal for room pressure applications
- ▶ Set SPDT relay to trigger when pressures drop



Monitor pressure changes in fume hoods, clean rooms, computer rooms and other isolated areas. Diaphragm actuated capacitance sensors detect pressure changes in the low differential ranges. If air pressure decreases in the monitored area, this transmitter will display negative room pressure and trigger the built-in alarm relay.

SPDT relay comes set for a 5% deadband of setting—but you can adjust it from 1 to 20%. Relay, zero, and span potentiometers are located on the front panel. Verify room pressure easily on three digit, 0.5" H LCD, and red and green status lights—no need to connect extra alarms or lights.



Mount NEMA 13 enclosed transmitter using three predrilled back holes. Electrical connections through punch outs protect the terminal strip from rust and dust.

Surge dampener is an ideal accessory to dampen pressure fluctuations from the opening and closing of doors. The surge dampener absorbs and delays the pressure changes to stabilize the output signal. Connect optional surge dampener to both process connections;

we recommend using air lines 2 to 3 feet in length. Connect optional wall mount sensor to walls and ceilings for remote readings. Order surge dampeners and wall mount sensors separately below.

Specifications & Ordering Information

- Accuracy:** ±1% full-scale
- Analog output:** 4 to 20 mA, 0 to 5 VDC, and 0 to 10 VDC
- Alarm output:** one SPDT relay; 120 VAC, 5 A max; resistive
- Temperature range (compensated):** 32 to 122°F (0 to 50°C)
- Process connection:** 1/8", 3/16", and 1/4" hose barb connectors (included)
- Electrical connection:** terminal strip
- Power:** 120/240 VAC, switchable; 50/60 Hz
- Maximum system pressure:** ±6.0" H₂O
- Media compatibility:** clean, dry, inert gases
- Dimensions:** 9 1/16" L x 7 3/8" W x 4 7/16" H
- Shpg wt:** 3 lb (1.4 kg)

Range	Resolution	Catalog number	Price
-0.1 to 0.1" H ₂ O	0.001" H ₂ O	A-68905-00	
-0.5 to 0.5" H ₂ O	0.001" H ₂ O	A-68905-02	
-1.0 to 1.0" H ₂ O	0.01" H ₂ O	A-68905-04	

[A-68905-90](#) Surge dampener. Shpg wt 1 lb (0.5 kg)

[A-68905-92](#) Wall mount sensor. Shpg wt 1 lb (0.5 kg)



HVAC Differential Pressure Transmitters

- ▶ NEMA 4X (IP65) rated housings
- ▶ Field calibrate multirange units by easily adjusting dip switch settings

New



Multirange unit
68076-00



Single-range unit
with LCD 68076-12

The low differential pressure of these transmitters makes them ideal for HVAC, pharmaceutical, and power plant environments. Transmitters feature a plastic glass-filled polycarbonate case and a stainless steel sensor, body, diaphragm and insulated electrode. The sensor detects changes in pressure, which affects overall capacitance. The capacitor, formed by the diaphragm and electrode, converts the change in capacitance to an electrical signal. Transmitters tolerate a positive or negative overpressure of 10 psi without damage to the unit. Transmitters are available in multirange and single-range units.

Multirange units feature six pressure ranges which are field-selectable by changing four-position dip switch setting. Single-range units feature a 3 1/2-digit LCD.

Specifications and Ordering Information

- Accuracy**
Single-range: ±0.5% full scale
Multirange: ±1.0% full scale
- Temperature range (compensated):** 40 to 150°F (5 to 65°C)
- Operating temperature:** 0 to 150°F (-18 to 65°C)
- Pressure fittings:** 3/16" brass barbed fittings
- Power:** 9 to 30 VDC
- Output:** 4 to 20 mA
- Electrical connection:** screw terminal
- Electrical termination:** 1/2" conduit opening
- Media compatibility:** air or other nonconductive gas
- Dimensions:** 6 1/4" L x 2 3/8" W x 2 1/16" H
- Shpg wt:** 1 lb (0.5 kg)

Pressure range		Catalog number	Price
Unidirectional (in. W.C.*)	Bidirectional (in. W.C.)		
Multirange pressure transmitters			
0 to 0.01	±0.05	A-68076-00	
0 to 0.25; 0 to 0.5; 0 to 1	±0.125; ±0.25; ±0.5	A-68076-02	
0 to 1.25; 0 to 2.5; 0 to 5	±0.625; ±1.25; ±2.5	A-68076-04	
0 to 7.5; 0 to 15; 0 to 30	±3.75; ±7.5; ±15	A-68076-06	
Single-range pressure transmitters			
0 to 0.25	—	A-68076-10	
0 to 0.5	—	A-68076-12	
0 to 1	—	A-68076-14	
0 to 2.5	—	A-68076-16	
0 to 5	—	A-68076-18	
0 to 10	—	A-68076-20	

*in. W.C. = inches water column