

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 dampener and wall-mount sensor separately below.



Transmitter 68905-00 with surge dampener 68905-90



Wall-mount sensor 68905-92

Specifications & Ordering Information

- Accuracy: ±1% full scale
- Temperature range (compensated): 32 to 122°F (0 to 50°C)
- Process connection: 1/8", 3/16", and 1/4" hose barb connectors (included)
- Power: 120/240 VAC, switchable; 50/60 Hz
- Electrical connection: terminal strip
- Maximum system pressure: ±6.0" H₂O
- 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
- Media compatibility: clean, dry, inert gases
- Dimensions: 9 1/16" L x 7 3/8" W x 4 7/16" H

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

- [C-68905-90](#) Surge dampener
- [C-68905-92](#) Wall-mount sensor

Cole-Parmer NIST-Traceable Differential Pressure Transmitters

NEMA 2 or NEMA 4X housings are ideal for indoor and outdoor applications

- ▶ Variable capacitance sensor with silicon diaphragm provides reliable sensitivity and stability.
- ▶ Include a certificate verifying traceability to NIST standards with test data supplied
- ▶ Use with clean, dry gases

NEMA 2 Housing Models are protected against dust and indirect splashing. Housing offers easy access to zero and span adjustments. Make electrical and process connections to front of the transmitter.

Rugged NEMA 4X Housing Models resist weather and corrosion; internal zero and span adjustments shielded under removable top cover. Connect electrical lines through 1/2" NPT(F) conduit openings on sides of and 1/4" NPT(F) process lines to top of transmitter.



Transmitter 68014-00 with NEMA 2 housing



Transmitter 68018-00 with NEMA 4X housing



Specifications & Ordering Information

- Output: 4 to 20 mA
- Media compatibility: clean, dry, inert gases
- Power: 13 to 36 VDC unregulated

Model	NEMA Type 2 housing	NEMA Type 4X housing
Accuracy (full-scale)	0.5%	0.5%
Maximum system pressure	25 psid	50 psid
Burst pressure	25 psig	100 psig
Temperature range (compensated)	35 to 135°F (2 to 57°C)	0 to 160°F (-17 to 71°C)
Process connection	1/4" tube ID	1/4" NPT(F)
Electrical connection	Terminal strip	Terminal strip
Dimensions	4 1/16" L x 4 3/16" W x 2" H	5 1/16" L x 3 3/8" W x 2 1/16" H

Range	NEMA 2 housing		NEMA 4X housing	
	Catalog number	Price	Catalog number	Price
0 to 0.1" H ₂ O	C-68014-00		C-68018-00	
0 to 0.25" H ₂ O	C-68014-02		C-68018-02	
0 to 0.50" H ₂ O	C-68014-04		C-68018-04	
0 to 1.0" H ₂ O	C-68014-06		C-68018-06	
0 to 2.0" H ₂ O	C-68014-08		C-68018-08	
0 to 2.5" H ₂ O	C-68014-10		C-68018-10	
0 to 3.0" H ₂ O	C-68014-12		C-68018-12	
0 to 5.0" H ₂ O	C-68014-14		C-68018-14	
0 to 10.0" H ₂ O	C-68014-16		C-68018-16	
0 to 25.0" H ₂ O	C-68014-18		C-68018-18	