DESCRIPTION

Compact, temperature-compensated pressure transmitters used for measuring differential pressure, positive pressure and vacuum of non-aggressive gasses in commercial monitoring and control applications including:

- Building automation and air conditioning systems
- Overpressure measurement in clean rooms and laboratories
- Measurement of constant pressure in VAV systems
- Dynamic filter and fan monitoring

FEATURES

- Dual, field-selectable pressure ranges
- Field-selectable 0..10 V or 4..20 mA output with screw-terminal connections (3-wire)
- Self-compensating piezoresistive ٠ pressure transducer maintains accuracy in any mounting orientation
- · Field-selectable normal or fast response time

SPECIFICATIONS

Supply Voltage

Max. Current Draw

Pressure Medium

Humiditv

Output Signal

18..30 VAC / 16..32 VDC 0..10 V and 4..20 mA Load (4-20mA output) 20..500 Ω < 65 mA without display <150 mA with display Air and non-aggressive gasses Piezoresistive pressure Measurement Method transducer Linearity and Hysterisis ≤ ± 1% f.s. Temperature: Operating 32..122°F (0..50°C) Storage 14..158°F (-10..70°C) 0..95% rh, non-condensing Long Term Stability (typ.) $\leq \pm 0.5\%$ up to $\pm 2.5\%$ f.s./yr; dep. on pressure range

24 VAC/VDC supply voltage

- Push-button zero calibration
- Optional 4-digit LED display
- 1/2" NPT conduit connection
- 1/4" hose connections
- Duct probes and 6' tubing included
 - Repeatability Position Dependency **Response Time** Hose Pressure Connections 1/4" hose fittings **Electrical Connections** Mounting Case Material Case Dimensions Weight Protection Standards

≤ ± 0.2% f.s. ≤ ± 0.02% f.s. 1 sec or 100 msec 16 AWG (1.5 mm²) max. 4 sheet metal screws ABS Aprox. 3.25" x 2.25" (85 x 58 mm) Aprox. 0.3 lb. (130g) NEMA 3 (IP 54) EN 60770, EN 61326, 2002/95/ EWG (RoHS)

Range 1 in. WC (Pa)	Range 2 in. WC (Pa)	Overload Capacity	Burst Pressure	Temperature Error (range 1)	Part Number*
-0.2 to 0.2" (-50 to 50Pa)	n/a	80" (20kPa)	160" (40kPa)	≤ ±0.002" (5Pa)	984M-4X3704
-0.4 to 0.4" (-100 to 100Pa)	n/a	80" (20kPa)	160" (40kPa)	≤ ±0.002" (5Pa)	984M-4W3704
0 to 0.4"	0 to 1"	80"	160"	≤ ±0.002"	984M-423704
(0 to 100Pa)	(0 to 250Pa)	(20kPa)	(40kPa)	(5Pa)	
0 to 1"	0 to 2"	80"	160"	≤ ±0.002"	984M-433704
(0 to 250Pa)	(0 to 500Pa)	(20kPa)	(40kPa)	(5Pa)	
0 to 2"	0 to 4"	80"	160"	≤ ±0.07"	984M-443704
(0 to 500Pa)	(0 to 1000Pa)	(20kPa)	(40kPa)	(17.5Pa)	
0 to 4"	0 to 10"	160"	280"	≤ ±0.04"	984M-453704
(0 to 1kPa)	(0 to 2.5kPa)	(40kPa)	(70kPa)	(10Pa)	
0 to 20"	0 to 40"	240"	480"	≤ ±0.002"	984M-473704
(0 to 5kPa)	(0 to 10kPa)	(60kPa)	(120kPa)	(50Pa)	

* To include display option, replace "0" with "1" in part number; example 984M-423714.

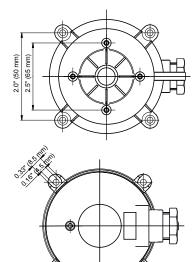


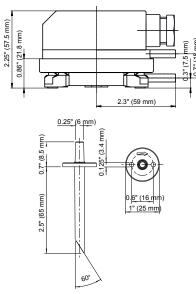






DIMENSIONS





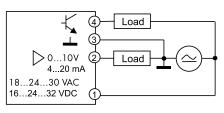
MOUNTING & INSTALLATIONS





Authorized Distributor: ControlSystemsUsa.com Houston, TX USA 832-615-3588 sales@ControlSystemsUsa.com

Terminal assignments



4		Switching output, npn	
3	GO	Ground GND	
2	Y	Output signal 0 10 V / 4 20 mA	
1	G	Supply voltage 24 VAC/VDC	

4-20mA Source output: Pin 1 + (G) = 24VAC/VDC Pin 3 - (GO) = 24VAC/VDC Pin 2 (Y) = 4-20 + output Pin 3 (GO) = 4-20 - output.

Note: Pin 4 not used, selector jumper Open.

Mounting and hose connection

Important: When connecting and laying the hoses, do not bend or damage them. Hoses and hose connections that are not airtight cause damage to the device or will give wrong measuring results.

Use 1/4" hose; clamps required above 100" WC (25kPA)

P1 = Positive pressure measurement

P2 = Vacuum measurement

P1 + P2 = Differential pressure measurement

	Switched (factory setting)	Open
 Pressure range 	Low	High
 Response 	Normal	Fast
🗕 n/a	n/a	n/a
 Output signal 	010 V	420 mA

Offset Calibration

This function is used to correct the zero-point deviation (offset) of the output signal in depressurised state (example: to 0 V/4mA at zero Pa).

Disconnect the unit from the pressure by opening both hose nozzles or removing the hoses. Then press the "M" button for 5 sec.

Safety and product liability

The product referred to in these instructions may only be mounted, connected and started up by qualified technicians. The valid safety regulations, intended use and technical data must be observed. In accordance with these regulations, the system voltage must be switched off and secured from being unintentionally switched on again. Damaged products may not be used. The product is not suitable for use in installations under periodic inspection by U.S. FDA. We are not liable for damages that have been caused by improper use.