



MAMAC



PR276



DESCRIPTION

The **MAMAC Systems Model PR276 Duct Static Pressure Transmitter** incorporates sophisticated integrated circuits and a new micro-machined glass-on-silicon (GI-Si) capacitance sensor to not only provide a high level, fully conditioned and temperature compensated output, but also to offer up to three (3) field selectable pressure ranges in one unit. The field selectable feature eliminates costly inefficiencies by providing a single unit which can be configured to cover all the pressure ranges for a particular application. For instance, 1.25", 2.50" and 5.00" W.C. are in one unit. To substantially reduce installation cost and to eliminate costly control panels, the **Model PR276** incorporates a pressure sensor and a static pressure tip integrated as one assembly.

Two industry standard output versions are available, 4-20mA 2-wire loop or field selectable 0-5 VDC/0-10 VDC. Wide 12-40 VDC or 12-35 VAC unregulated supply voltage and a broad 25°F–150°F compensated temperature range ensures compatibility to most of the applications. Rugged NEMA 4 (IP-65) enclosure, gasketed cover, external mounting bracket, fully temperature compensated NIST traceable accuracy, and a liberal five year warranty are some of the features which make the **Model PR276** not only the most reliable, but the lowest installed cost duct pressure sensor in the industry.

FEATURES

- **100% solid state, micro-machined, glass-on-silicon, ultra-stable capacitance sensor**
- **Duct pressure transducer and static pressure tip integrated as one unit**
- **Up to 3 field selectable ranges in one unit**
- **Rugged NEMA-4 (IP-65) enclosure with external mounting bracket**
- **Short circuit and reverse polarity protected**
- **Conforms to EMC and RoHS standards**

SPECIFICATIONS

Supply Voltage	12 to 40 VDC @ 20 mA	Wetted Parts	Silicon pressure sensor
Current output	12 to 40 VDC @ 20 mA	Media Compatibility	Inert dry air
Voltage output	12 to 40 VDC, 12 to 35 VAC @ 10 mA	Process Connection	Probe length 8"
Accuracy	±1% Full scale	Wiring Terminations	1/2" gland, Terminals- 2 used-(4-20mA), 3-(Volts)
Signal Output (Volts,Current)	0-5V @ 1kΩ, 0-10V @ 1kΩ, 4-20 mA @ 600Ω	Mounting	2, #8 screws
Sensor Type	Capacitive	Enclosure Rating	Painted Metal, NEMA 4, (IP66), or panel mount
Adjustments	Zero & Span trim POTs	Dimensions	6.0" W X 2.25"H X 4.0"D (15.2 x 5.7 x 10.2 cm)
Overpressure	(Burst) 23" WC	Weight	1.0 lb (0.45 Kg)
Max Operating Pressure	(Proof) 15" WC	Approvals	CE, RoHS
Operating Temperature	0° to 175°F (-18° to 80°C)	Warranty	5 years
Operating Humidity	10 to 90% Non-condensing		

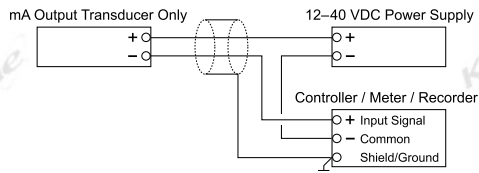


PRESSURE

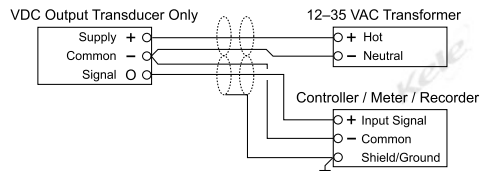
DUCT STATIC PRESSURE TRANSMITTER PR276 SERIES

WIRING

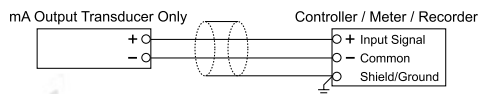
Wiring for mA Output Duct Pressure Transducers with External DC Power Supply



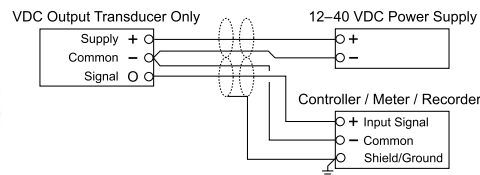
Wiring for VDC Output Duct Pressure Transducers when Applied with External AC Supply



Wiring for mA Output Duct Pressure Transducers where Controller or Meter has Internal DC Power Supply



Wiring for VDC Output Duct Pressure Transducers when Applied with External DC Power Supply



ORDERING INFORMATION

MODEL	DESCRIPTION
PR276	Duct pressure sensor
	PRESSURE RANGE W.C. (Pa)
R10	0 to 5.0 / 0 to 2.5 / 0 to 1.25" W.C.
R11	0 to 15 / 0 to 7.5 / 0 to 3.75" W.C.
R12	0 to 1250 / 0 to 625 / 0 to 312.5 pa
R13	0 to 3750 / 0 to 1875 / 0 to 937.5 pa
	OUTPUT
mA	4-20 mA 2-wire
VDC	0-5 VDC or 0-10 VDC field selectable

PR-276 - R10 - mA **Example:** PR-276-R10-mA Duct pressure sensor, 0 to 5.0 / 0 to 2.5 / 0 to 1.25" W.C. range with 4-20 mA 2-wire output.

RELATED PRODUCTS

T-101	1/4" OD black poly tubing, 1 coil, 250 ft (76 m)
SD-01	Surge dampener
RPS	Stainless steel room pressure sensor, 1/4" barb
RPS-I	Ivory plastic room pressure sensor, 1/4" barb
RPS-W	White plastic room pressure sensor, 1/4" barb
A-302-K	Duct static pressure tip, 1/4" barb
A-301-K	Duct static pressure tip, 1/4" compression
A-345-K	Flange mounting kit (1 required for each A-301-K or A-302-K)
A-308-K	Duct static pressure fitting, 1/4" barb
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
691-K0A	Control transformer, 120:24 VAC, 40 VA, Class 2
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT