



PRESSURE

WET TO WET DIFFERENTIAL PRESSURE TRANSMITTER

PR282 SERIES

DESCRIPTION

The **MAMAC Systems Model PR282 Wet to Wet Differential Pressure Transmitter** incorporates sophisticated integrated circuits and new fused silicon monolithic cavity pressure sensors to not only provide a high level, fully conditioned and temperature compensated output, but also to offer up to six (6) pressure ranges. The stainless steel monolithic pressure cavity not only provides media compatibility for most of the applications, but also offers a leakproof solution for today's environmentally conscious customers. Three industry standard output versions are available: 4-20 mA 2-wire loop or 0-5 VDC/0-10 VDC. A wide 12-40 VDC or 12-35 VAC unregulated supply voltage and a broad 0°F–180°F compensated temperature range ensures compatibility to most of the applications. A rugged NEMA-1 (IP-30) enclosure, fully temperature compensated NIST traceable accuracy and a liberal five year warranty are some of the features which make the **Model PR282** the industry's most reliable, rugged, and economical pressure sensor.

MAMAC



PR282 Series



FEATURES

- 100% solid state fused silicon pressure sensor
- Rugged, leak-proof stainless steel monolithic pressure cavity with no welds, o-rings, or seams/bonds
- NIST traceable calibration
- Rugged NEMA-1 (IP-30) enclosure
- Short circuit and reverse polarity protected
- Conforms to EMC and RoHS standards

SPECIFICATIONS

Supply Voltage	12-40 VDC @ 25 mA	Operating Humidity	10 to 90% Non-condensing
Current output	12-40 VDC @ 10 mA,	Wetted Parts	316 stainless steel
Voltage output	12 to 35 VAC @ 0.3 VA	Media Compatibility	Liquid/Gasses compatible w/316 SS
Accuracy	±1.0% Full scale (Linearity, Hysteresis, stability & Repeatability)	Process Connection	1/8" FNPT
Signal Output (Volts,Current)	0-5V @ $\lt; >1K\Omega$ or 0-10V @ $\lt; >1K\Omega$, 4-20mA @ $\lt; 600\Omega$	Wiring Terminations	Removable Terminals 2-(4-20mA), 3-(volts), 12 AWG max
Sensor Type	Piezoresistive silicon	Mounting	Three Internal 0.188" holes for #8 screws
Adjustments	Zero & Span trim POTs	Enclosure Rating	Painted steel 16 AWG, NEMA 1
Overpressure	(Burst) 300% of range	Dimensions	5.88"W x 3.5"H x 2.0"D, (14.9 x 8.9 x 5.1 cm)
Max Operating Pressure	(Proof) 500% of range	Weight	1.7 lb (0.75 Kg)
Operating Temperature	0° to 180°F (-18° to 82°C)	Approvals	CE, RoHS
Compensated Temperature Range	0° to 180°F (-18° to 82°C)	Warranty	5 years

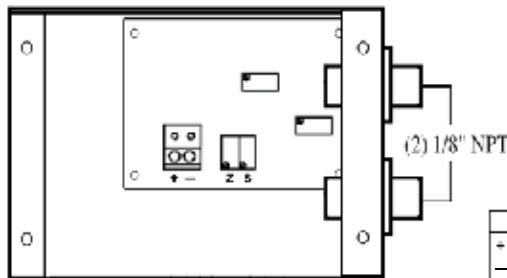
PRESSURE

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WIRING

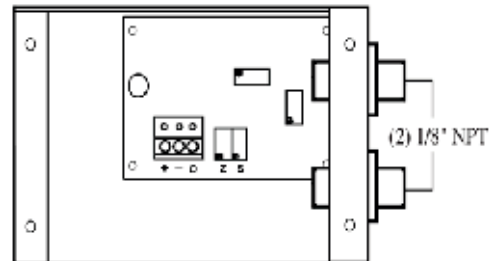
Differential Pressure Transducer with mA Output

LEGEND	
+	Supply Voltage
-	Output
S	Span Adjust
Z	Zero Adjust



Differential Pressure Transducer with VDC Output

LEGEND	
+	Supply Voltage
-	Common
O	Output
S	Span Adjust
Z	Zero Adjust

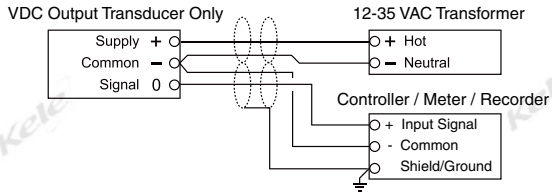




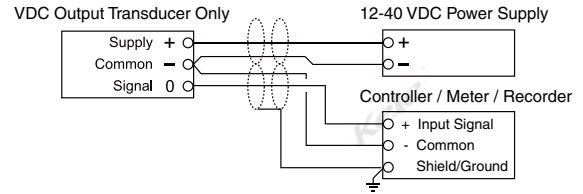
WET TO WET DIFFERENTIAL PRESSURE TRANSMITTER PR282 SERIES

WIRING

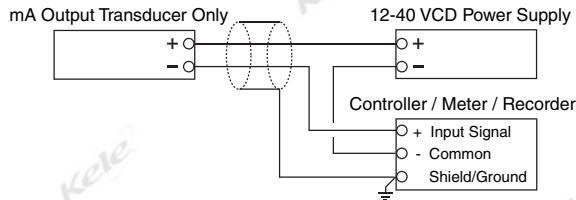
Wiring for VDC Differential Pressure Transducers when applied with External DC Power Supply



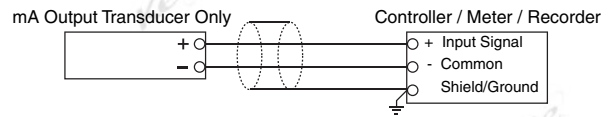
Wiring for VDC Differential Pressure Transducers when applied with External DC Supply



Wiring for mA Differential Pressure Transducers with External DC Power Supply



Wiring for mA Differential Pressure Transducers where the Controller or Meter has an Internal DC Power Supply



ORDERING INFORMATION

MODEL	DESCRIPTION
PR282	Differential pressure sensor
OUTPUT	
2	0-5 VDC
3	0-10 VDC
4*	4-20 mA
PRESSURE RANGE psid (kPa)	
1	0-20 (137.9)
2	0-30 (206.8)
3	0-50 (344.7)
4	0-100 (689.5)
5	0-200 (1379.0)
6	0-300 (2068.4)
SUPPLY VOLTAGE	
A12B	24 VDC
B12B	24 VAC

PR-282 - 3 - 2 - A12B

Example: PR-282-3-2-A12B Differential pressure sensor, 0-10 VDC output, 0-30 psid range, with 24 VDC supply voltage.

* Only available in VDC supply voltage.

RELATED PRODUCTS

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