

Process Measure Control

DIFFERENTIAL PRESSURE TRANSMITTER DP1000 SERIES

The PMC **DP1000 Series** transmitters are designed as high performance rugged general purpose pressure transmitters suitable for a wide range of applications. The specifications below focus on the differential pressure version, while gauge and absolute are also available, see separate datasheet VT1000. Both stainless steel and titanium construction are available.

Features

- Accuracy 0.1% std. 0.05% available
- Ranges 0 -1 to 300psi
- Up to ±200psid
- -40 to 255 °F
- 4-20mA or 0-5 VDC

TECHNICAL SPECIFICATIONS

Full Scale Ranges	Uni directional: 0-1, 5, 10, 15, 30, 50, 100, 150, 300 psid Bi directional: ± Ranges up to 200 psid <i>Negative pressure not to exceed positive by more than 200 psi</i>
Accuracy-Static	±0.05% (option) ±0.1% (standard) or ±0.25% (option) <i>Non-linearity, hysteresis, repeatability, zero & span settings.</i>
Accuracy-Total Error Band	TEB without optional active compensation ±0.8% for 32 to 160°F, ≤ FS 7.25 psi ±1.3% for -15 to 212°F, ≤ FS 7.25 psi ±0.3% for 32 to 160°F, > FS 7.25 psi ±0.75% for -15 to 185°F, > FS 7.25 psi TEB with optional active compensation ±0.5% for 32 to 160°F, ≤ FS 7.25 psi ±1.0% for -15 to 212°F, ≤ FS 7.25 psi ±0.2% for 32 to 160°F, > FS 7.25 psi ±0.5% total for -15 to 185°F, > FS 7.25 psi
Overpressure (Proof Pressure)	FS up to 15 psi: 45 psi FS > 15 psi: 3 x FS (Negative pressure max - 200 psi) <i>Consult factory for higher proof pressure</i>
Line Pressure	500 psi max (≤175°F), 300 psi max (175 - 250°F) Typical line pressure shift is <0.015% FS/10 psi for zero and span
Burst Pressure	1000 psi (Positive Port), 125% Rated Line Pressure (Negative Port)
Operating Temperature Range	-40° to +255° F (See fig. 2 for 300°F)
Compensated Temperature Range	+32 to 160°F (standard) -15 to 212°F (option) -40 to 212°F (option) -40 to 255°F (option with active compensation)
Electrical (either)	2-wire, 4-20 mA output, 9-33 VDC power 3-wire, 0-5 VDC standard (0-10 VDC option, 12-30 VDC power)
Electrical Terminations	6-pin bayonet - 10-6 pin layout, (see fig. 4) , DIN connector (see fig. 3), polyurethane or FEP cable (see fig. 5) <i>Others available</i>
Pressure Connections	1/4" NPT (male or female) 7/16-20 UNF-2A male (AN-4) <i>Others available</i>
Housing	316L Stainless Steel or Titanium
Media Compatibility	Positive port: Compatible with 316L Stainless Steel or Titanium Negative port: Clean, dry gas (<i>for damp or wet media contact PMC</i>)
Weight (excluding cable)	5.5 oz. (excluding cable)

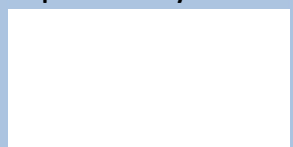
Applications

- Test & Measurement
- Wellhead
- Industrial Flow
- Pump Monitoring
- Flight Test
- Health Monitoring

Contact

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Represented by:



PMC Engineering adopts a continuous development program which sometimes necessitates specification changes without notice

PMC specializes in providing sensors and solutions throughout industry

PMC Configurator

DP X X X X

Model Construction	Per Mechanical Details Below	1
Housing Material	316L Stainless Steel	1
	Titanium-5yr corrosion warranty	2
Electrical Connection	Polyurethane Molded Cable	1
	FEP Cable	2
	Electrical Connector (specify type)	5
	Cable length must be specified at the time of ordering.	
Electrical Output Type	0-5 or 0-10V (specify)	2
	4-20 mA loop powered	3

Additional Information Required

- (1) Pressure Range including engineering units
- (2) Specify differential
- (3) Accuracy (0.1% standard)
- (4) Compensated Temperature Range (32 to 160°F standard)
- (5) Pressure connection type - specify positive and negative (i.e. ¼" NPT male)
- (6) Electrical connector type (if required)
- (7) 0-5 or 0-10 VDC output (if required)

Example Ordering Format: DP1153 - ±5psi - 0.1% - 32 to 160°F - DIN connector - +port ¼" NPT male/-port ⅛" NPT

MECHANICAL DETAILS

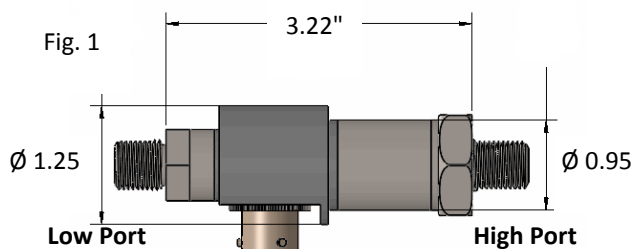
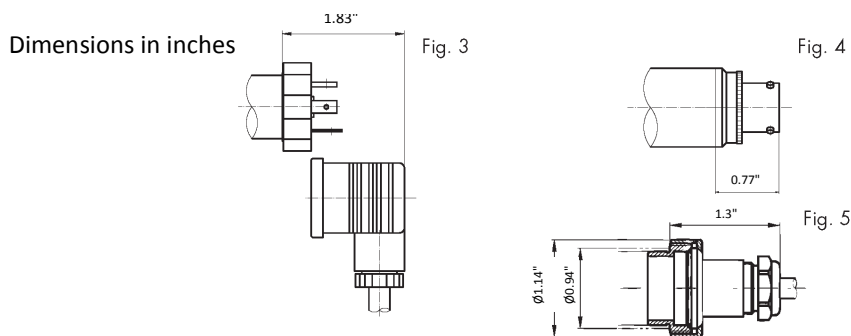


Fig. 2: For high temperature (300°F) increase 3.22" dimension above to 3.74"



ELECTRICAL DETAILS

Configuration	+V Supply	0V Supply	+ V Output	- V Output	Ground
4-20mA	Red	Black			Green
0-5VDC/0-10VDC	Red	Black	Yellow	Black	Green

Note: For DP1000 Series supplied with electrical connector-See details supplied with transmitter

Process Measure Control

Sensors for

- Pressure
- Level
- Vacuum
- Humidity
- Temperature
- Force
- Position

Other Products

PMC's wide range of pressure & temperature sensors suit most industrial applications. Features include:

- Ranges 0 - 20" to 0 - 10,000psi
- Temperatures to 400°F
- 4-20 mA, 0 - 5 VDC
- HART® RS485, CAN...
- Hazardous Certs.

PMC is

- Engineering Driven
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

PMC specializes in providing sensors and solutions throughout industry