



## Industrial Pressure Transmitter

*IMP Series*



- Thick film ceramic sensor
- Accuracy:  $\pm 0.25\%$  FS BFS (0.1% optional)
- Pressure ranges from 10 to 10000psi
- Gauge, Sealed Gauge or Absolute reference
- 4-20mA Two Wire Configuration
- Voltage or mV Output Versions available

The industrial pressure transmitter, IMP, has a piezo-resistive ceramic pressure sensor giving it excellent media compatibility. The housing is made from stainless steel with a choice of internal "O" ring seals to insure the product is suitable for a wide range of applications. Every device is temperature compensated, calibrated and supplied with a traceable serial number and calibration certificate. The electronics incorporate a microprocessor based amplifier, which means there are no adjusting pots and therefore the electronics are very stable, especially in high vibration / shock applications.

**There are many options available on the IMP pressure transmitter. These include the following :**

- Pressure range and engineering units
- Pressure reference (G, SG or Abs)
- Output
- Accuracy (Non-linearity & hysteresis)
- Thermal accuracy
- Electrical connection
- Process connection
- Process connection material
- O ring seal material

**Suitable for the following applications:**

- Hydraulics & Pneumatics
- Autoclave & Sterilization
- Agricultural machinery
- Laboratory testing
- Mechanical engineering
- Environmental engineering
- Automotive and General testing
- Tank gauging
- Pumps, compressors & HVAC

## Standard Specifications

### ■ Full Scale Ranges

0-10,15,30,50,100,150,300,500,1000psi gauge  
0-10,15,30,50,100,150,300,500,1000psi absolute  
0-100,150,300,500,1000,1500,3000,6000,10000psi SG  
-15 to 0,15,30,50,100 compound ranges  
*Other ranges and units can be specified*

### ■ Accuracy

±0.25% standard (BSL), ±0.1% optional (BSL)  
*Combined non-linearity, hysteresis & repeatability*

### ■ Overpressure (Proof pressure)

Ranges up to 1500psi – 2X full scale  
Ranges above 1500psi – 1.25X full scale

### ■ Burst Pressure

Ranges up to 30psi – 4X full scale  
Ranges above 30psi to 1500psi – 2.4X full scale  
Ranges above 1500psi – 1.25X full scale

### ■ Temperature

Media: from -10 to 275°F (300°F with cooling element)  
Ambient: from -10 to 175°F  
Storage: from -40 to 250°F  
Compensated: from +68 to 175°F

### ■ Temperature Effects (Compensated)

Code 1: <0.0055%/°F, Code 2: <0.011%/°F,  
Code 4: <0.022%/°F

### ■ Electrical

2-wire, 4-20mA, 9-32Vdc power  
Zero and Span Settings <0.5% Full Scale  
Reverse Polarity Protected  
Insulation Resistance: >500MΩ at 50Vdc  
*For mV or Voltage versions refer to Sheet IMPb*

### ■ Construction

Housing and Process Connection: Stainless Steel:  
303 Standard, 316L Optional  
Seals: Viton Standard. Nitrile, EPDM, Chenrez Options  
Diaphragm: Ceramic Al<sub>2</sub>O<sub>3</sub> 96%

### ■ Mechanical

Shock: 100g/11ms  
Vibration: 10g RMS (20.....2000Hz)

## Standard Specifications

### ■ Pressure Connection Options

¼" or ⅛" NPT Male or Female are standard  
Others available, contact PMC

### ■ Electrical Connection Options

DIN 43650 – Small, GDS 307 – Large, GDM 3009  
*-Mating plug supplied*  
Cable Gland with 10ft 4-core vented cable  
*-longer lengths can be specified*  
Amphenol 6-pin Connector  
*-Mating plug not supplied as standard but available*

### ■ Weight

Approx. 3.5oz excluding cable and connector

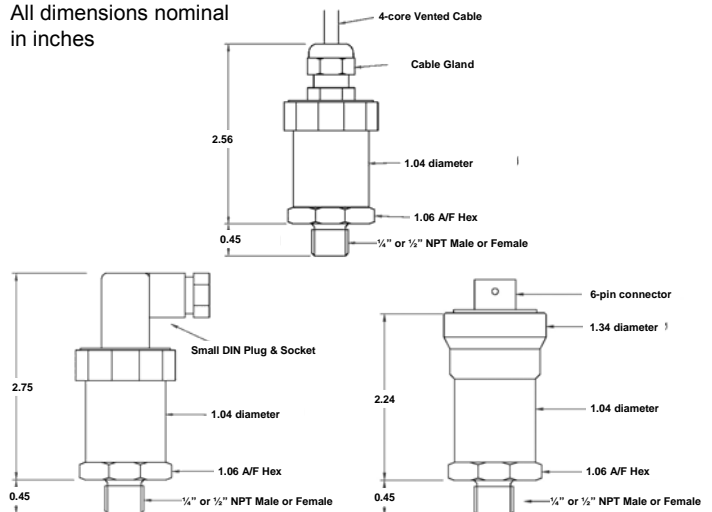
## How to Order

### ■ Please provide the following:

-IMP Series  
-Pressure range and type, i.e. 100psig  
-Accuracy, i.e. ±0.25% or ±0.1%  
-Temp effects, i.e. Code 1, 2 or 4  
-Output, i.e. 4-20mA  
-Pressure Connection, i.e. ¼" or ⅛" NPT, Male or Female  
-Electrical Connection, i.e. DIN, Amphenol or Cable  
*Reference PMC or IST PL for codes*

## Standard Configurations

All dimensions nominal  
in inches



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