

Medium Range Stainless Steel Modular Strain Gauge Based **PRESSURE SENSOR**

PT
Series



- Pressure Ranges 50bar to 1000bar
- Sealed Gauge Operation
- Sealed to IP66 (PT15 & PT16) IP65 (PT17)
- Robust Stainless Steel Construction
- High Resistance to Pressure Transients and Spikes
- Excellent Price/Performance Ratio
- **3 YEAR WARRANTY**

Options Available

Other Ranges available on request

Temperature Compensation to $\pm 0.005\%$

Amplified Outputs (Voltage or Current)

Different cable lengths on PT15 and PT16

Different connectors on PT17 (consult factory)

Closer toleranced output sensitivity

DESCRIPTION

The PT series of pressure sensors have been engineered to offer an economical solution for the measurement of pressures between 0-50bar and 0-1000 bar.

The design, with its unique spike damping properties, makes it desirable for use in hydraulic applications where dynamics can cause transients, for example, hydraulic lifting equipment, vehicle weighing and general monitoring of pressures on equipment such as hydraulic cylinders.

The three different configurations of sensor enable the user to choose the version that best suits their needs, both commercially and technically. The modular design allows modifications and special versions to be designed very effectively.

The PT series is ideally placed to meet the requirements of the single piece user and the volume user alike. To further compliment the series, they can be supplied with integral amplifiers, or alternatively, calibrated with any of our instrumentation range.

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

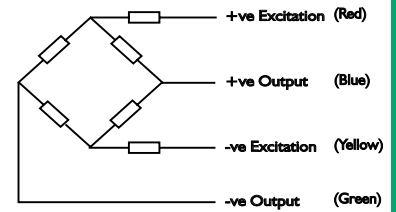
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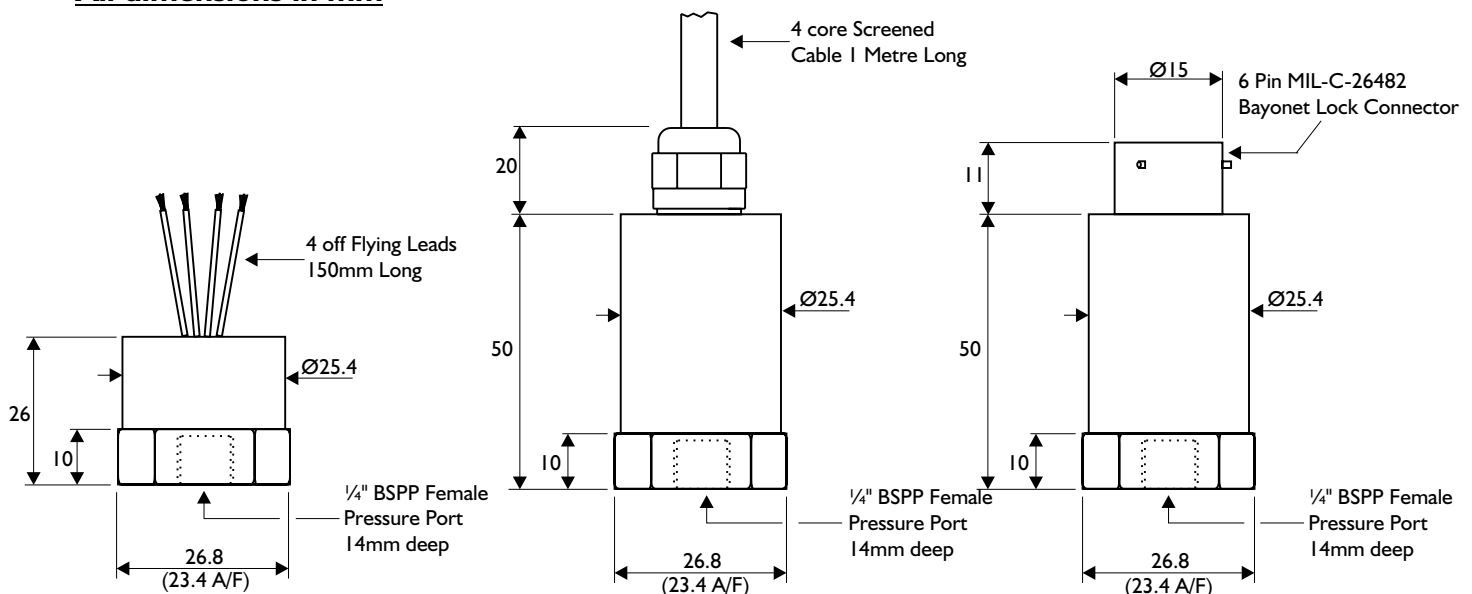
SPECIFICATION

Wiring Schematic Diagram



CHARACTERISTICS	PT15	PT16	PT17	UNITS
Pressure Ranges:	50, 100, 200, 250, 350, 500, 700, 1000			bar
Operational Mode:	Sealed Gauge			
Sensitivity (Rated Output):	2.0 nominal			mV/V
Excitation Voltage:	10 recommended (12 max.)			VDC or VAC
Non-Linearity:	<0.15			±% of Rated Output
Hysteresis:	<0.20			% of Rated Output
Overpressure Capability:	150			% of Pressure Range
Burst Pressure:	300			% of Pressure Range
Zero Balance:	<5.0			±% of Pressure Range
Temperature Range Operating:	-10 to +65	-10 to +65	-10 to +65	°C
Compensated:	0 to +30	0 to +30	0 to +30	°C
Temperature Effects On Output:	<0.040	<0.040	<0.040	±% of Reading/°C
On Zero:	<0.040	<0.040	<0.040	±% of Rated Output/°C
Input Impedance:	350 nominal	350 nominal	350 nominal	ohms
Output Impedance:	350 nominal	350 nominal	350 nominal	ohms
Insulation Resistance:	>1000 at 50VDC	>1000 at 50VDC	>1000 at 50VDC	Megaohms
Media Compatibility:	Any Gas or Fluid compatible with 17-4PH Stainless Steel			
Environmental Protection:	IP66	IP66	IP65	
Weight:	90 (excluding cable)	125 (excluding cable)	125	grams

All dimensions in mm



PT15 Outline Drawing

PT16 Outline Drawing

PT17 Outline Drawing

