



# Dynamic Pressure Sensors

## Model 950-xx

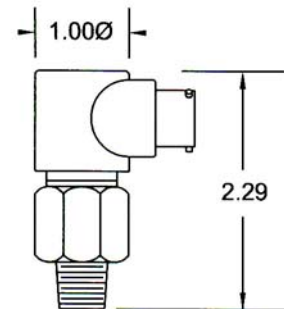
The Columbia Series 950 Pressure Transducers are completely self-contained measuring systems that allow direct readout and recording of pressure surges or blasts without additional signal conditioning equipment. Available in a variety of voltage sensitivities, the device is capable of sensing small dynamic changes in pressure in the frequency range of 5 to 18KHz while withstanding high static pressure.

This sensor series is housed in a rugged stainless steel case, mounts via a 1/2" male pipe thread, and incorporates a recessed diaphragm. A 6-pin connector provides convenient installation. This design has a long history of successful operation in down-hole oil drilling applications.

- **Fast Pressure Variations, Surges & Dynamic Blasts**
- **High Pressure**
- **Choice of Sensitivities**
- **6-Pin Connector**

### Specifications

Transfer / Electrical	950
Available Voltage Sensitivities	1 To 50 mV/psi
Pressure Range	7500 psi
Pressure Overload (without damage)	10,000 psi Max.
Frequency Response	5 To 18,000 Hz
Resonant Frequency	60 KHz
Amplitude Linearity	+/-1% F.S.
Capacitance	500 pF
Output Resistance	100 Ohms
Grounding	Isolated
<b>Environmental</b>	
Temperature Range (Less than +/-10% Variation)	-40 To +185 Deg F (-40 To +85 Deg C)
Humidity <sup>1</sup>	0 To 100% R.H.
Vibration Limit	500 g
Shock Limit	1,000 g
<b>Physical</b>	
Size	1.00 In. Dia. x 2.29 In. H (25.4 mm Dia. x 58.1 mm H)
Weight	5.3 Oz (150 Gm)
Material	Type 303 Stainless Steel – Upper Housing Type 17-7 Stainless Steel – Lower Housing Type C-276 Hastelloy – Diaphragm
Electrical Interface	6-Pin Connector, PT02-10-6P
Mounting	1/4 In. NPT Male Thread, Recessed Diaphragm



### Output Connector Pin Functions:

- Pin A = Signal Output
- Pin B = Signal Ground
- Pin C = +15VDC (Power)
- Pin D = Power Ground
- Pin E = Case Ground
- Pin F = Spare

### Accessories Supplied:

- (1) Mating Connector
- (1) Hardwood Storage Box
- (1) Standard Calibration Data.

### NOTES:

<sup>1</sup> With Connector Mated or Protected, Unit is Hermetically Sealed.

### Ordering Information:

#### Model 950-xx

where **xx** = selected voltage sensitivity from 1 to 50 mv/psi

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