

## FEATURES

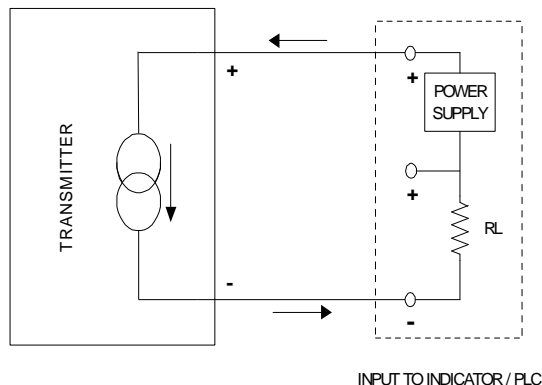
- q Digitally compensated
- q Amplified outputs
- q Wide operating temperature range
- q Low pressure configuration
- q No leaks and welds
- q No 'OOO' rings



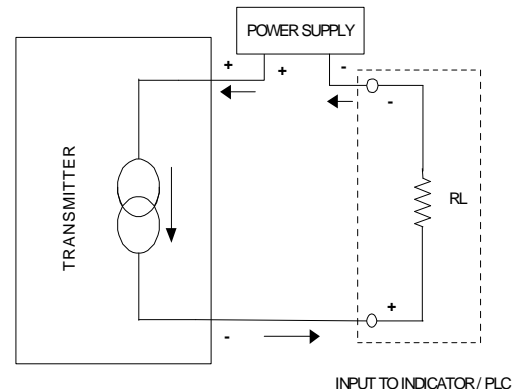
The PTx-600 series of Pressure Transmitter uses one-piece stainless steel construction to provide a stable performance for measurement of liquid or gas pressure, even for difficult media such as contaminated water, steam, and mildly corrosive fluids or gases. The transmitter accurately measures the pressure and transmits a proportional 4 – 20 mA output signal. The transducer pressure cavity is machined from a solid piece of 17-4 PH stainless steel. The standard version includes a 1/4" NPT pipe thread allowing a leak-proof, all metal sealed system. There are no "O" – rings, welds or organics exposed to the pressure media. The durability is excellent. These transmitters are universally suitable for a variety of applications such as pumps & compressors, pressure instrumentation, refrigeration equipment, energy & water management, hydraulic/pneumatic systems, etc.

## WIRING DIAGRAM:

RECEIVER WITH INTERNAL POWER SUPPLY



RECEIVER WITH EXTERNAL POWER SUPPLY



## SPECIFICATIONS:

### ELECTRICAL

Supply voltage	10 – 30V DC
Supply current	<25mA
Output	4 – 20mA
Output load	700 ohms maximum at 24 V DC
Bandwidth	DC to 1KHz (Typical)
Electrical connection	Mini DIN Right Angle Connector / Parkcard Connector (refer table)

### PERFORMANCE at 25°C

Pressure range	Refer measuring range table
Accuracy, % of FS Span (combined linearity, hysteresis & repeatability)	+/-0.25% BSL, max (per ISA S37.2)
Media compatibility	17-4 PH stainless steel (optional 316L stainless)
Pressure cycles	10 million, minimum
Pressure overload	2 times rated pressure
Burst pressure	4 times full scale or 20,000 PSI, whichever is less
Long term stability (1 year)	+/-0.25% FS Span (Typical)

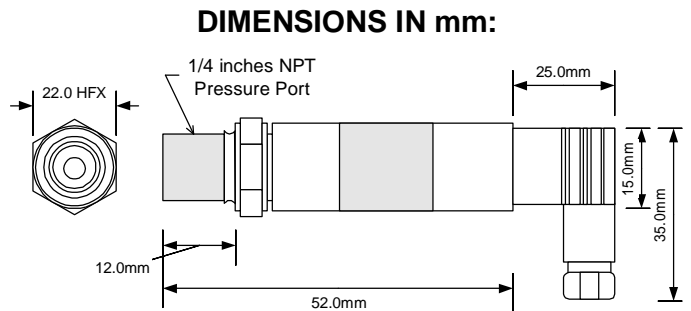
**contd. specifications:**

**ENVIRONMENTAL**

Operating temperature range	-40° to 100°C
Compensated temperature range	-20° to 85°C
Total error band	< +/-1% of FS (75-10,000 PSI)
(over compensated temperature range)	< +/-1.5% of FS (25-50 PSI)
Storage temperature range	-45° to 100°C
Shock	50g, 11msec half sine shock per MIL standard 202F, method 213B, condnA
Vibration	+/- 20g MIL-STD-810C
EMI/RFI Immunity	EN 50081-2, EN 50082-2 (10V/M, 26-1000MHZ), EN 61326
Humidity	95% RH, condensing

**MEASURING RANGE TABLE: Pressure Type – Gauge**

Range in BAR	Code 'XXX-M'		Electrical Connection	Process Connection
	XXX	M		
0 - 4	004	0	M	1/4" BSP Male
0 - 5	005	0	M	1/4" BSP Male
0 - 6	006	0	M	1/4" BSP Male
0 - 7	007	0	M	1/4" BSP Male
0 - 8	008	0	M	1/4" NPT
0 - 10	010	0	M	1/4" BSP Male
0 - 16	016	0	M	1/4" BSP Male
0 - 18	018	0	M	1/4" NPT
0 - 20	020	0	M	1/4" BSP Male
0 - 25	025	0	M	1/4" BSP Male
0 - 30	030	0	M	1/4" BSP Male
0 - 35	035	0	P	1/4" NPT
0 - 40	040	0	M	1/4" BSP Male
0 - 50	050	0	P	1/4" NPT
0 - 60	060	0	M	1/4" BSP Male
0 - 70	070	0	M	1/4" BSP Male
0 - 100	100	0	M	1/4" BSP Male
0 - 135	135	0	M	1/4" NPT
0 - 160	160	0	P	1/4" NPT
0 - 175	175	0	P	1/4" NPT
0 - 200	200	0	M	1/4" BSP Male
0 - 250	250	0	M	1/4" BSP Male
0 - 300	300	0	M	1/4" BSP Male
0 - 350	350	0	M	1/4" NPT
0 - 400	400	0	M	1/4" BSP Male
0 - 525	525	0	M	1/4" BSP Male
0 - 600	600	0	M	1/4" NPT
0 - 700	700	0	M	1/4" BSP Male
0 - 1000	100	1	M	1/4" BSP Male



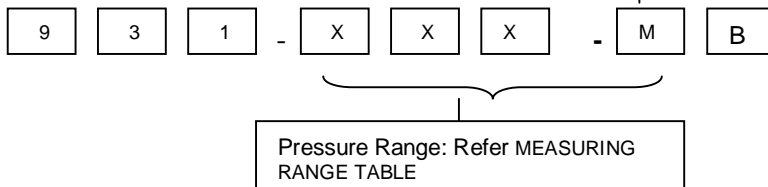
**Note:** Mini DIN Connector shown  
4-20mA Output: - Pin1: +Excitation, Pin2: Output

**Conversion Factor:**  
 1 BAR = 1.02 kg/cm<sup>2</sup>  
 1 PSI = 7.0309 × 10<sup>-2</sup> kg/cm<sup>2</sup>  
 1 BAR = 14.508 PSI

- Note:**
- For different process connections suitable adapter can be used – Consult Factory
  - Electrical Connection:  
 M = Mini DIN Connector  
 P = Parkcard Connector

**Multiplying Factor:**  
 0 = Multiply by '1'  
 1 = Multiply by '10'

**ORDERING CODE:**



**SAMPLE ORDER CODE:**  
**931-018-0B**  
 Range 0 –18 Pressure,  
 In BAR