

UNIVERSAL PRESSURE TRANSDUCER

PTX800

- > GAUGE OR ABSOLUTE
- > 0.25 % ACCURACY
- > IP65 DIN PLUG AS STANDARD (OPTIONAL IP67 CABLE)
- > OPERATING TEMPERATURE RANGE (-40 TO 125) °C
- > RANGES (0 TO 1) BAR, (0 TO 400) BAR
- > 1 YEAR WARRANTY



INTRODUCTION

The PTX800 series of pressure transmitters features accuracy and a high stability which is achieved by proven CVD sensing technology and an ASIC amplifier. The PTX800 series has modular packaging to provide a sensor line that fits most applications and can easily accommodate specials whilst not sacrificing high performance.

The PTX800 series comes as standard with a 4 pin DIN plug electrical connection, or with an IP67 cable option. Cable lengths are available from 2m to 150m.

SPECIFICATIONS

INPUT

Pressure Range	Vacuum to 400 bar G, (0 to 25) Absolute
Proof Pressure	2 x Full Scale (FS) (1.5 x FS for 400 bar)
Burst Pressure	>35 x FS <= 6 bar >20 x FS <= 60 bar >35 x FS <= 400 bar
Fatigue Life	Designed for more than 100 million FS cycles

PERFORMANCE

Long Term Drift	0.2 % FS/year non cumulative
Accuracy	0.25 % FS typical (optional 0.15 % FS)
Thermal Error	1.5 % FS typical (optional 1 % FS)
Compensated Temp.	(-20 to 80) °C
Operable	(-40 to 125) °C
Tolerance	Zero 1 % of span Span 1 % of span

MECHANICAL

Pressure Port	G¼ BSP Male
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	Industrial DIN connector IP65 cable gland metal IP67 (optional)
Vibration	35g peak sinusoidal, (5 to 2000) Hz
Acceleration	100 g steady acceleration in any direction 0.032 % FS/g for 1 bar range decreasing logarithmically to 0.0007 % FS/g for 400 bar range
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE

Weight	approx. 100 g (excluding cable) cable = 75 g/m
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CURRENT OUTPUT

Output	(4 to 20) mA, 2 wire
Supply Voltage	24 VDC, ((7 to 35) VDC) Above 100°C supply limited to 24 VDC
Supply Voltage Sensitivity	0.1 % FS/V
Max. Loop Resistance	(Vs-7) X 50 Ω

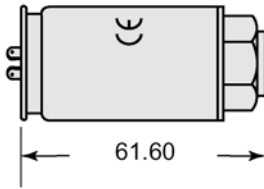
VOLTAGE OUTPUT

* Please contact sales office.

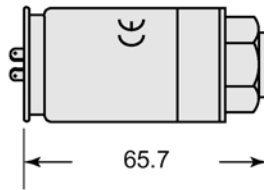
HIGH PRESSURE TRANSMITTER

MECHANICAL DETAILS

AMPLIFIED GAUGE



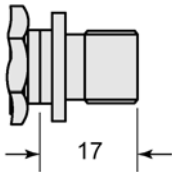
AMPLIFIED ABSOLUTE



MAXIMUM DIAMETER 27.3MM

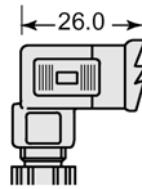
PROCESS CONNECTION

G $\frac{1}{4}$ SOFT SEAL

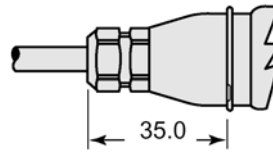


ELECTRICAL CONNECTIONS

INDUSTRIAL DIN CONNECTOR (MALE SUPPLIED)



IP67 CABLE



ORDER CODE

PTX /

81	0-1 Bar
82	0-2.5 Bar
84	0-4 Bar
86	0-6 Bar
810	0-10 Bar
816	0-16 Bar
825	0-25 Bar
840	0-40 Bar
860	0-60 Bar
8100	0-100 Bar
8160	0-160 Bar
8250	0-250 Bar
8400	0-400 Bar

Gauge	G
Absolute up to 25 Bar	A

Config - For ranges other than above
e.g. 0-7.5 Bar

* Compound & vacuum contact sales office

OPTIONS - IP67 METAL CABLE GLAND AND CABLE

OPT/PTX/IP67-2	(2 m cable)
OPT/PTX/IP67-5	(5 m cable)
OPT/PTX/IP67-10	(10 m cable)
OPT/PTX/IP67-XXX	(Maximum cable length 150m)