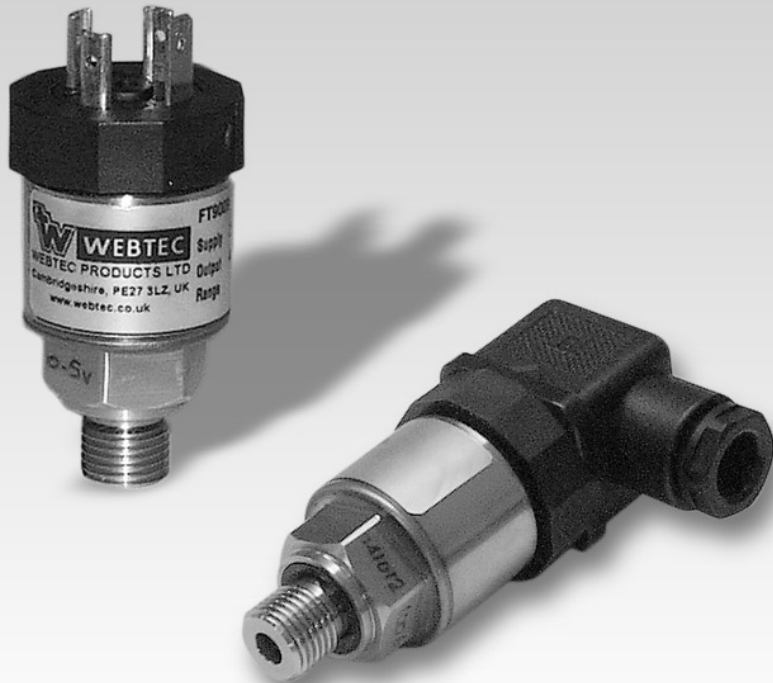


WPT Series

Pressure Transducers and Transmitters



Applications

The WPT pressure sensors are designed for continuous monitoring of oil, gas, water, hydraulic and other pressure media in mobile equipment, industrial hydraulics, compressors and process control equipment. The thin film sensor design eliminates fragile bonding wires that can disintegrate under high shock and vibration applications.

Economical price and rugged design allows the WPT transducers to be designed into O.E.M. or existing circuits to give feedback for control and condition monitoring information.

Combined with one of the wide range of Webster digital readouts both continuous and peak pressures can be measured. Standard analog outputs allow easy integration into common PLC or data acquisition hardware.

The WPT series utilizes thin film techniques along with fully automated production methods to produce a standard of performance previously only associated with high price pressure transducers.

Features

- **ACCURATE** ($\pm 0.15\%$ span)
- **ECONOMICALLY** priced
- **RUGGED** design
- **HIGH** stability
- **HIGH** shock resistance
- **OUTPUTS** 0 - 10V, 4 - 20mA
- **TEMPERATURE** compensated
- **STAINLESS** Steel wetted parts

Another quality product from the Webster Range

Specification

Pressure Ranges

1500, 3500, 6000 or 10000 psig

Accuracy

Better than $\pm 0.15\%$ span

Proof Pressure

2 x Full scale, 15000 psi max

Fatigue Life

100 million cycles

Electrical Characteristics

Output Signal	0 - 10V	4 - 20mA
Supply Voltage Requirement	11.5 - 35Vdc	7 - 35Vdc
Zero Tolerance	0.5% of FS	0.5% of FS
Repeatability	0.03% FS	0.03% FS
Span Tolerance	$\pm 0.5\%$	$\pm 0.5\%$

Temperature Range

Compensated range -4 to 176 °F (- 20 to + 80°C)

Operating range -67 to 248 °F (- 55 to + 120°C)

Temperature Effects

FS (-20 °C to 80°C)

Long Term Drift

0.06% FS / 6 years

Burst Pressure

7 x FS, 4 x for 10,000 psi

Resistance

Voltage output: min. load

(FS output/2) K Ohms e.g. 10 V output into 5 K Ohms.

Current output: max load (Vs-7) x 50 Ohms. e.g. 24V dc supply into 0 to 850 ohms including all cable resistance.

Electrical Connection

DIN type connector 43650 sealed to IP65 & NEMA 4. Integral cable connection available, consult sales office.

Mechanical Construction

The sputtered Thin Film Sensor ensures excellent performance over wide operating temperatures and under extreme conditions of shock and vibration. The stainless steel housing eliminates possible leak paths and provides a rugged enclosure with an integral viton seal to ensure sealing at high pressures.

Pressure Connection

1/4" NPT male (1/4" BSP male optional)
(BSP supplied with Viton Seal)

Material

17 - 4PH stainless steel wetted parts

Vibration Tolerance

70G peak sinusoidal 5 Hz to 5 kHz per MIL-STD 810, method 514.2 Procedure I.

Mechanical Shock Tolerance

100g steady acceleration in any direction

Options and Accessories

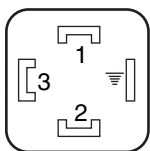
Complete range of digital readouts, pressure test points and micro-bore hoses.

Installation

How To Order

Complete Readout & Transducer System

Specify readout and transducer as follows: DP130-S-AC-WPT6000-P-N-mA is a pressure readout with a 6000 psi transducer suitable for a 110 Volt AC power supply. (See DP130 bulletin for details on Digital Pressure readouts)



Ground

DIN Connector Pin Out		
Pin #	Function MA	Function V
1	+Excit / Signal	+Excit
2	OV	0 V
3	N/C	+ Sig
Ground	EARTH	EARTH

Typical Code for 6000 psi, 4-20 mA output, 1/4" NPT transducer:

Pressure Range (see Table 1) — WPT 6000 P N mA
 Pressure Units (P) psi (B) bar
 Porting (N) 1/4" NPT, (B) 1/4" BSPF
 Output 4 - 20 (mA), 10 (V)

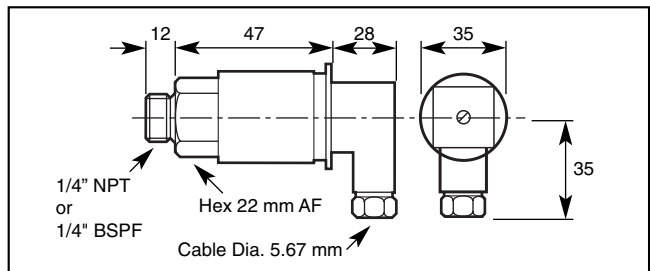


Table 1

Range (psi)	Range (bar)
1500	100
3500	250
6000	400
10000	700

