

Depth and Level Pressure Transmitter PTX-1830

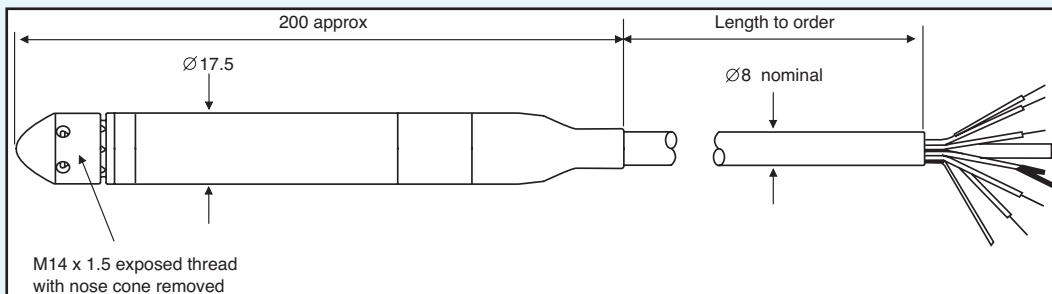
*** ±0.1% Accuracy * Fully Welded Titanium Construction**

Function: The PTX-1830 is a fully submersible liquid level sensor, designed to work in the most hostile of environments where materials such as stainless steel cannot be considered. It features high performance micro-machined silicon technology, with the silicon measurement element and surface mount electronics fully isolated from the media by a titanium diaphragm and shell. Features include a Kevlar strain relieved vented cable, internal condensation protection and an IP68 injection moulded cable assembly, which guarantees sensor operation over an extended lifetime.



| SPECIFICATIONS | OUTPUTS: | SUPPLY: | GENERAL: |
|---|---|---|--|
| INPUTS: Operating Pressure Ranges 75, 150mbar gauge 350, 700mbar, 1, 1.5, 2, 3.5, 5, 7, 10, 15, 20, 35 and 60 bar gauge or absolute (Other pressure units can be specified if required) Overpressure The operating pressure range can be exceeded by the following multiples with negligible effect on calibration: 8 x for 75 and 150mbar ranges 6 x for 350mbar range 4 x for ranges of 700mbar and above up to 140 bar maximum Pressure Containment 10 x for 75, 150 and 350mbar ranges 6 x for ranges of 700mbar and above up to 140 bar maximum Pressure Media Fluids compatible with Titanium, Polyurethane (cable) and Acetal (nose cone) | Current 4 to 20mA (2 wire) proportional for zero to full scale pressure Loading (Ohms) $R_{L\text{MAX}} = 50 \times (V_{\text{SUPPLY}} - 9)$ PERFORMANCE: Accuracy Combined effects of Non-linearity, Hysteresis and Repeatability: ±0.1% F.S. Best Straight Line max Zero Offset and Span Setting Maximum: ±0.25% F.S. Long Term Stability Typically ± 0.1% F.S./annum for ranges above 350mbar. For ranges of 350mbar and below, this value will increase pro-rata with calibration span | Power Supply Voltage 9 to 30 Volt DC at the transmitter terminals Insulation Resistance >100 Mohms @ 500V DC (@20°C) PHYSICAL: Electrical Connection 6-core vented polyurethane cable. 1m length supplied as standard. Longer lengths available on request Process Connection Depth cone with radial inlet holes | Operating Temperature -20 to +60°C Compesated Temperature Range -2 to +60°C Temperature Effects ±0.3% F.S. Total Error Band (TEB) for ranges of 350 mbar and above ±0.6% F.S. Total Error Band for 75 and 150mbar ranges Protection Level Water ingress protection to IP68 to 700 mH ₂ O. Surge Protection Units will withstand a 600V voltage spike in accordance with ENV 50142 without damage when applied between all excitation lines and case CE Conformity EMC Emissions: EN50081-1, EMC Immunity: EN50082-2 Weight 145 gms with 1m of cable |

MECHANICAL DETAILS



Electrical Connections

6 core vented polyurethane cable
 Red: Supply +ve
 Blue: Supply -ve
 Black and Screen wire connected to case with the remaining cores not connected

ORDERING DETAILS

- Give identification code, i.e. PTX-1830
- Give details of pressure range and pressure units, i.e. 0 to 350 mbar gauge
- Give cable length if more than 1m required



LEE-DICKENS LTD

Desborough, Kettering, Northants NN14 2QW U.K.
 Tel: (01536) 760156 Fax (01536) 762552