



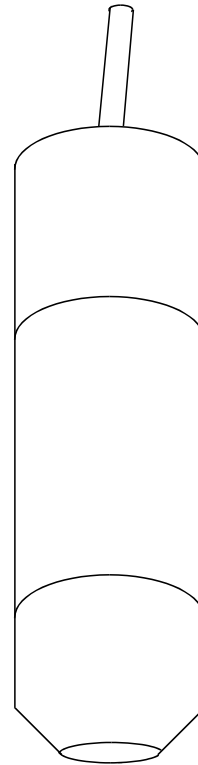
HAWKER

LEVEL CONTROL SYSTEMS

HPTX23 Two Wire Submersible Level Transmitter

For Aggressive Liquids

- Suitable for open or unpressurised vessels
- Top of Tank Mounting:
Maintains tank integrity
Easy retrofit, no need to drain tank
- P.V.D.F. construction ideal for very aggressive liquids, chemicals and waste water.
- Unaffected by foam or change in conductivity or dielectric constant of the product.



The HPTX23 Series is the latest generation of fully submersible 2 wire 4-20mA current output transmitters made of P.V.D.F. Having excellent chemical resistance the transmitter can be used on a wide range of aggressive liquids. The pressure sensing element consists of a robust, high accuracy, piezoresistive silicon sensor mounted in a stainless steel housing which is fully isolated from the media by a P.T.F.E. coated stainless steel diaphragm and filled with oil. The hydrostatic pressure

acts on the diaphragm and is transferred through the oil onto the sensor. The sensor assembly and transmitter electronics are sealed in a P.V.D.F. housing. Electrical connection to the transmitter is via a sealed in depth cable with integral vent tube, available in either polyurethane or P.T.F.E. construction. Pressure ranges are to DIN std e.g.100,160,250,400,600mbar and 1, 1.6, 2.5, 4, 6, 10, 16, and 25 bar. Special customer calibrations are available above100mbar.



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TECHNICAL SPECIFICATION

Specification

Pressure Range: Standard DIN pressure ranges e.g. 100, 160, 250, 400, 60mbar and 1, 1.6, 2.5, 4, 6bar upto 25bar. Special customer calibrations are available above 100mbar.

Supply Voltage: 11V to 33VDC
Voltage influence >0.1% FS

Output Voltage: 2 Wire, 4-20mA

Load: L $\frac{\text{Supply voltage} - 11}{0.02}$

Accuracy: Standard $\pm 0.5\%$ FS BSL
Optional $\pm 0.25\%$ FS BSL
(combined non linearity, hysteresis & repeatability)

Operating Temperature: 0 to 70° C

Electrical connections: Polyurethane or Teflon cable lengths to be specified at time of ordering.

Construction: Body: PVDF
Diaphragm 316L St/St Teflon coated
Seals: Viton Standard
Optional EPDM, others available.

Key Materials

P.T.F.E. Polytetrafluoroethylene e.g. Teflon

P.V.D.F. Polyvinylidene Fluoride

Viton: Fluorcarbon.

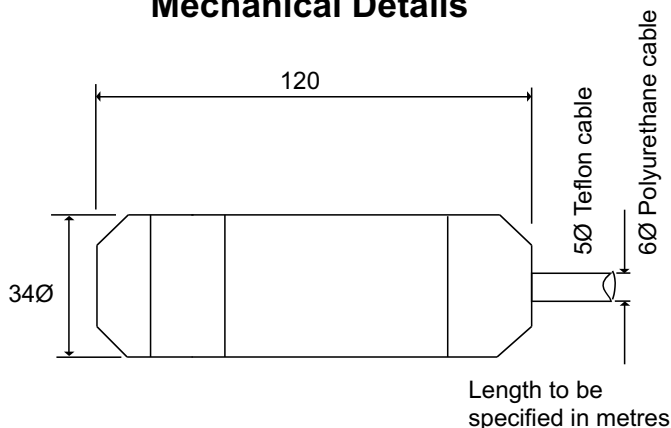
EPDM: Ethylene Rubber

Approvals

EMC: Emissions: EN 50081-1: 1992
Immunity: EN 50082-2: 1995
Electrostatic: EN 6100-4-2: 1995
(optional lightning protection)

CE: Complies with EMC directive 89/336/EEC

Mechanical Details



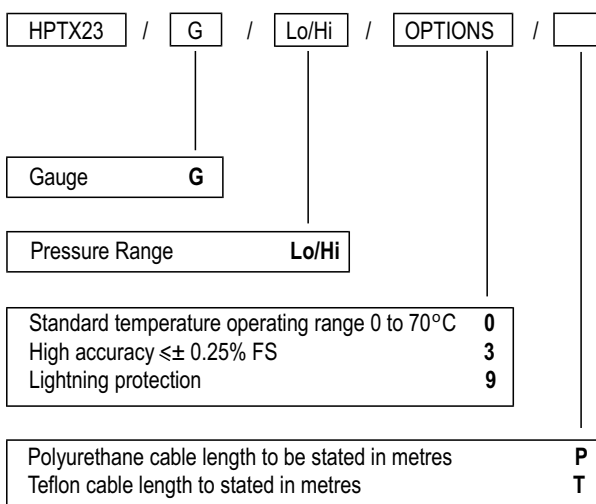
Connection Details (Integral Cable)

+VE = White

-VE = Yellow

Case Earth = Grey

Order Code



Because of continuing development we reserve the right to change the specifications without notice.

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