#### **500 SERIES**



# 2 wire transmitter for liquid level and pressure

A compact and mass optimised design with a choice of corrosion resistant materials together with a wide choice of standard process connection options, make the series 500 range of 2 wire transmitters the ideal choice for simple application in many industries.

Key features

Chemicals & Oils
Water & effluents
Food & Beverage
Ppharmaceutical &
marine / shipboard
Gauge & absoluter
DIN electrical
connector
Integrated electronics



2 wire, 4 - 20 mA output

full spans from 10 mbar to
400 bar

rugged construction for
tough duties

unrivalled shock and
overload tolerance
flanged, threaded and

sanitary fittings







## **Specifications**

Body: 316 stainless steel

Diaphragm: Hastelloy C276 or 17-4PH st.steel or inconel X750

Assembly: Electron Beam and Pulsed Arc Tig Fusion

Supply: 2 wire 9 to 32V DC Signal Output: 4 - 20 mA DC

Load: LW =(Supply volts - 9) / 0.02

Connection: Standard Din plug
Zero adjustment: ±10% of nominal

Span adjustment: 3 to 1 turndown of nominal

Protection: to IP65 / NEMA 4X ( with vented signal cable )

Humidity: 0 - 100 % non condensing

Process temp: -20 to 100°C / - 5 to 212°F

Maximum error:  $\pm$  0.25% T.S.L

Temp effect: less than 0.02% FS / °C 0.011 % FS / °F

Overload: Min. 10x nominal up to 50m

Min. 5x nominal up to 30Bar Min. 2x nominal above 30Bar The integral amplifier provides a direct 4 - 20 mA output and features full zero and span user calibration facility.

A unique sensor technology incorporates a precision diaphragm with nesting backplate affording exceptional protection against overpressure, whilst retaining excellent sensitivity and resolution.

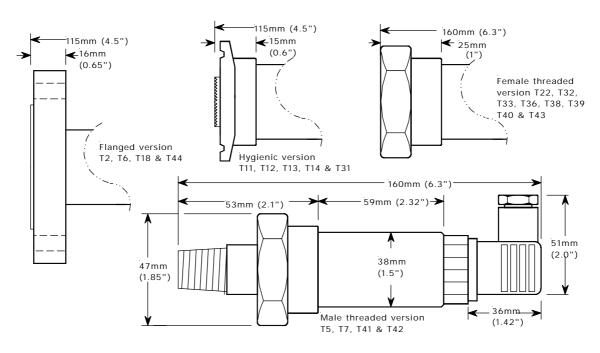
Rigorous testing ensures quality and reliability of every unit. Each instrument is subject to a 100% mass spectrometry inspection of containment welds, combined thermal pressure cycling and a 24 hour 'burn in' test prior to final calibration.



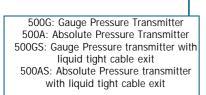
# Typical outline drawing

#### 500 SERIES

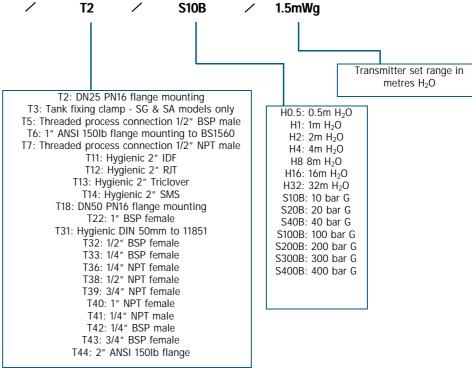




## Model coding



500G



# **PSM**

## advice & enquiries

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