

OPTIMA 360 SERIES



Complimenting the Optima, PSM design and manufacture the iTC Series, a complete range of Single & Multi-Channel Tank monitors & controllers. Completing the picture, TANKVIEW is a PC based Graphical display package offering full screen based display & reporting. Data sheets available on request.

2 Wire hydrostatic level transmitter for industrial applications

Key features

- Submersible construction
- EEXia IIC T5 certified option
- complies with RFI / EMC Standards
- Fully Welded Construction
- superior Low Range Sensitivity / Accuracy
- Unrivalled Overload Tolerance
- applications in oils, chemicals, effluent, viscous fluids, sludges, Water open channel flow, etc.



The 'Optima' series employs the established measurement principle of pressure sensitive diaphragm / LVDT. PSM's unparalleled experience in the use of this technology in many thousands of applications results in a transmitter designed to perform accurately and reliably in the most demanding and arduous duties. Diaphragms are produced in corrosion resistant alloys and are offered in a number of "nominal" ranges, each engineered for optimum performance at it's measurement span. Diaphragm travel is limited by mechanical design, providing unmatched tolerance to high overload and shock conditions.

Construction

TIG fusion technology and Mass Spectrometry analysis ensures complete integrity of all welded joints. Thermal stress relief techniques ensure long-term service stability.

Submersible construction is standard and the sensor may be free standing, suspended, clamped or pole mounting within the vessel.

For external mounting, any standard flange or thread may be specified.

Benefits

Where the application demands, automatic compensation for both process and ambient temperature fluctuations can be built in.

For enhanced reliability and stability, all active electronics are remotely sited in a weatherproof enclosure, which, for ease of adjustment, contains all calibration controls.

This electronics module meets current IEC standards for RFI/EMC immunity, and is available certified I.S. for use in hazardous zones.

The sensor cable has a high performance PTFE (TPE) over-sheath for high temperature and aggressive chemical duties.

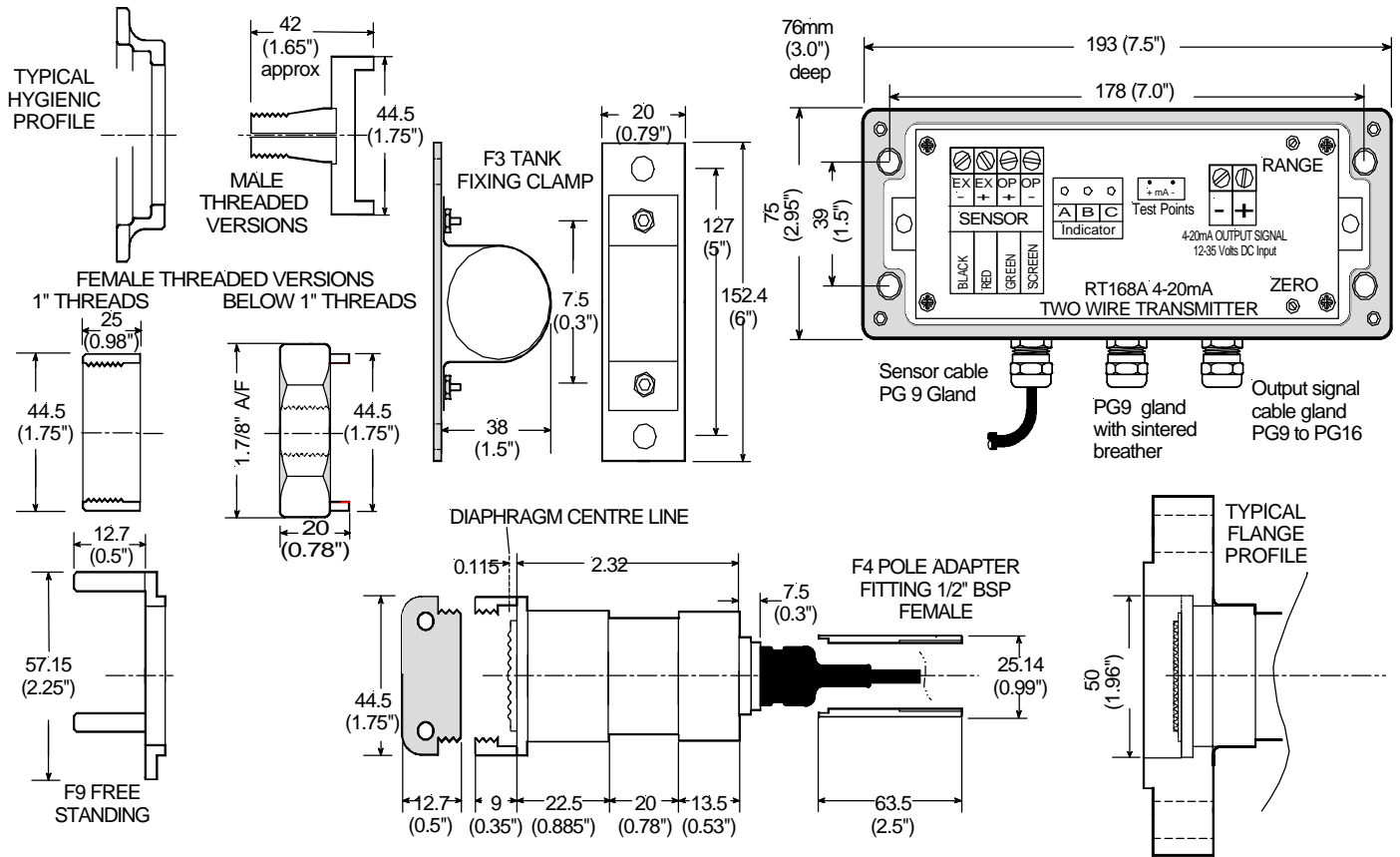
Specifications

Calibrated spans:	From 0 - 300mm H ₂ O to 0 - 100m H ₂ O
Range adjustment:	3:1 turndown of nominal range
Zero adjustment:	± 10% of calibrated span
Overload:	Minimum of 50 metres or 5 x nominal range
Nominal ranges:	0.5,1, 2, 4, 8, 16, 32, 50, 100 metres H ₂ O
Signal output:	4 -20mA DC 2 wire
Power supply:	12 - 30V DC (loop powered)
Maximum load:	1000 ohms at 30V
Sensor body:	316L stainless steel
Diaphragm:	Hastelloy C276
Sensor cable:	Heavy duty TPE sheathed. With integral vent tube
Electronics housing:	GRP IP65 / NEMA 4 (IP67 option) with RFI screen
Sensor operating temperature:	-25°C to +95°C (option: -80 to 150°C)
Electronics operating temperature:	-40 to +55°C
Electronics survival:	-50°C
Accuracy:	Better than ±0.25% FRO
Temp. coefficient:	Less than 0.05% / °C range & zero (0.02% / °C optional)

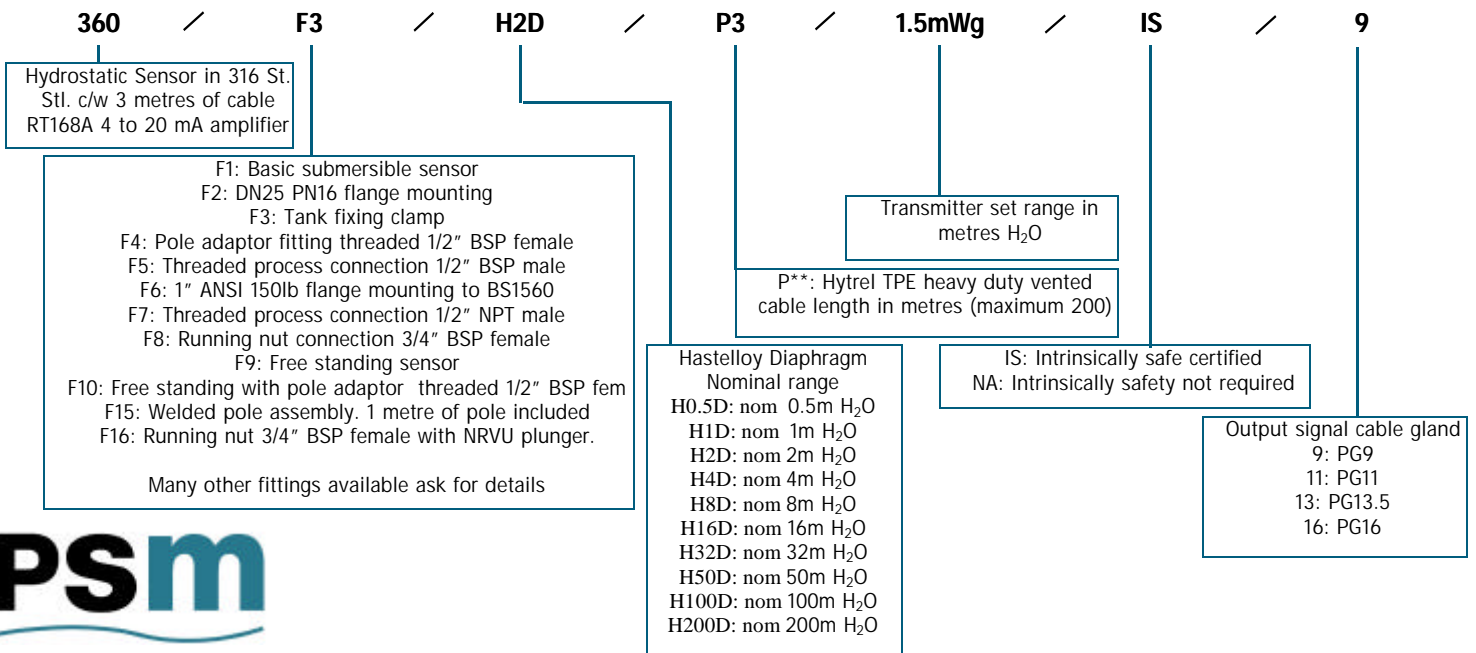


Typical outline drawing

OPTIMA 360 SERIES



Model coding



advice & enquiries

Telephone: +44 (0) 1444 410040

Fax: +44 (0) 1444 410121

Email: sales@psm-sensors.co.uk

Web: <http://www.psm-sensors.co.uk>

The Optima 360 is a registered design. All rights reserved 2003

PSM Instrumentation Limited

Burrell Road Haywards Heath W Sussex RH16 1TW UK

T +44 (0) 1444 410040 F +44 (0) 1444 410121 W www.psm-sensors.co.uk E sales@psm-sensors.co.uk