

# 700 series



## Submersible borehole / probe level transmitters

### Key features

fully submersible sensor  
meets rfi/emc immunity standards  
Rugged shock - resistant design  
Compact 1 inch ( 25MM ) diameter  
simple installation  
wide range of duties  
EExia IIC T5 intrinsically safe models available



The PSM Series 700 Borehole and Probe Transmitters employ the proven principle of pressure sensitive diaphragm and LVDT. They are specifically designed for applications where access for installation is restricted such as deep wells or buried storage vessels.

### standard specifications

<b>Minimum range:</b>	0 - 1.3 metres H <sub>2</sub> O	<b>Maximum load:</b>	1000 ohms at 30V
<b>Maximum range:</b>	0 - 100 metres H <sub>2</sub> O	<b>Signal output:</b>	4 -20mA DC 2 wire
<b>Nominal ranges:</b>	1, 2, 4, 8, 16, 32, 50, 100 metres H <sub>2</sub> O	<b>Accuracy:</b>	Better than $\pm 0.5\%$ FRO
<b>Range adjustment:</b>	3:1 turndown of normal range	<b>Sensor cable:</b>	Heavy duty TPE vented
<b>Zero adjustment:</b>	$\pm 10\%$ of calibrated span	<b>Maximum length:</b>	300 metres
<b>Overload:</b>	5X nominal range	<b>Operating temperature:</b>	-25°C to +85°C
<b>Sensor body:</b>	316 stainless steel as standard. uPVC option	<b>Temp. coefficient:</b>	Less than 0.05% per °C shift zero and range
<b>Diaphragms:</b>	Hastelloy	<b>Minimum survival:</b>	-50°C
<b>Power supply</b>	12 - 30V DC	<b>Electronics housing:</b>	IP65 GRP (NEMA 4) with internal RFI screen (IP67 optional)

The standard unit is simply suspended on its own cable.

A threaded connection in the nose cap enables guides or weights to be attached to assist installation.

Where a rigid installation is required the sensor is pole mounted, either as a demountable or an all welded construction, as the application requires. A simple 1 inch ( 25mm ) compression fitting is all that is needed for insertion.

The standard construction materials are suited to a wide range of liquid duties, and for aggressive chemicals the stainless body/pole may be replaced by uPVC.

The use of a remote electronic module means calibration controls can be sited at a convenient point greatly simplifying commissioning and periodic calibration checks.

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.



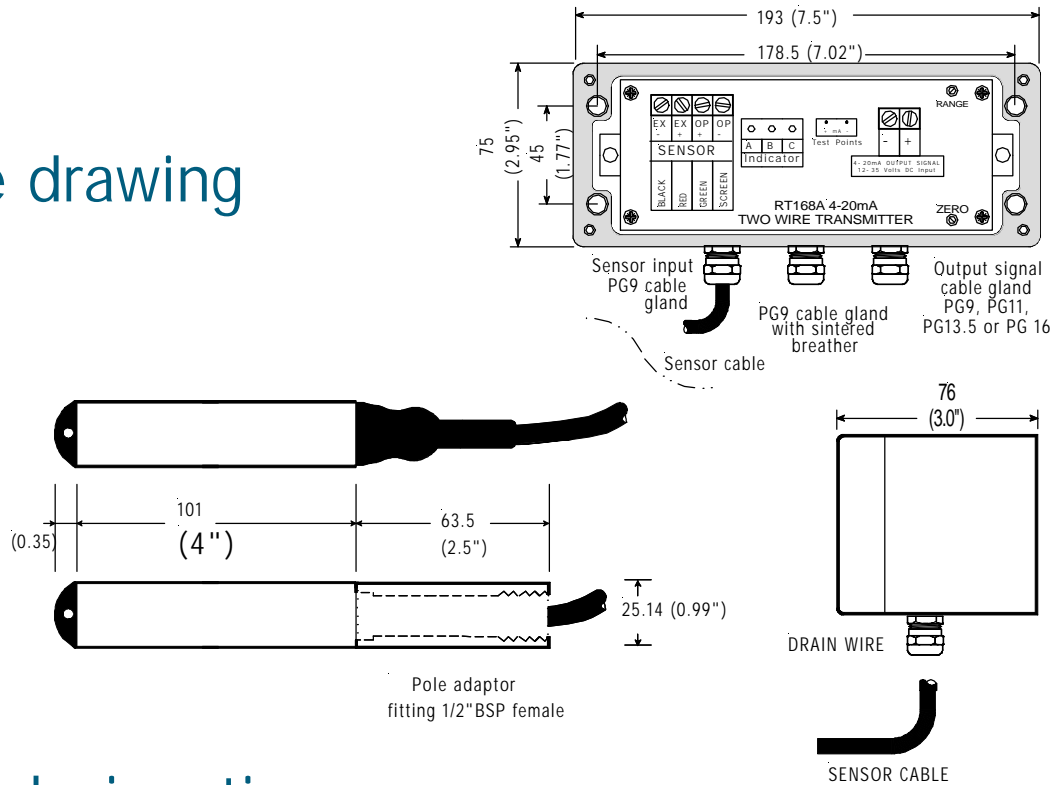
# PSM



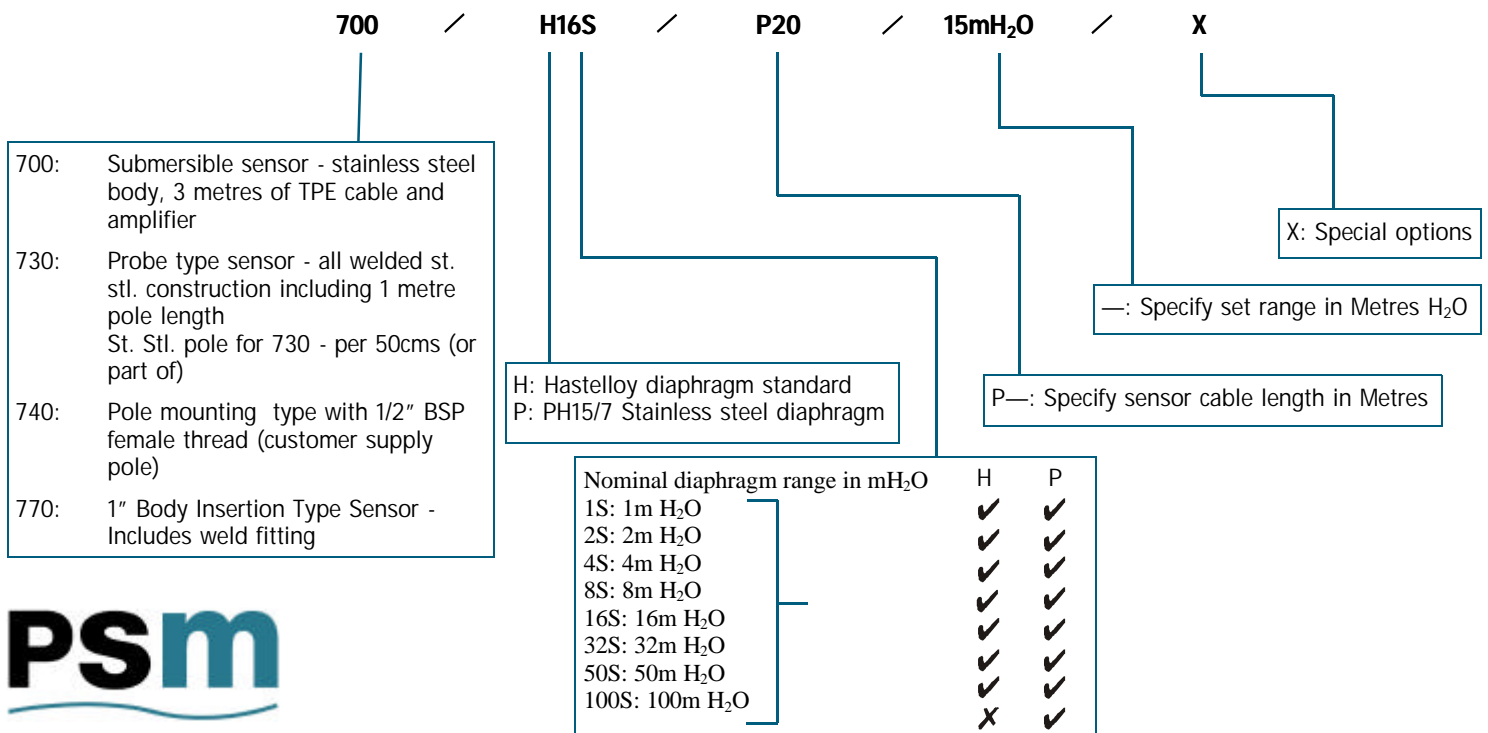
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## Outline drawing



## Model designations



## advice & enquiries

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