



**APT 500 Series**  
**Analogue Pressure & Level Transmitter for**  
**Marine and Industrial applications**

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**BESTOBELL**  
**AQUATRONIX**  
SINCE / DEPUIS 1953  
BEP-Bestobell  
[www.bestobell.com](http://www.bestobell.com)



- Fully submersible construction may be installed internal or external to tank with a variety of mounting options from PSM
- Choice of construction materials depending on application
  - Stainless Steel - Service and Oils
  - Titanium - Ballast & Draught
  - Hastelloy / Tantalum - Corrosive Chemicals
- Robust construction with high overload tolerance
- Nominal measurement ranges from 0.2 to 10 bar - factory calibration allows 3:1 turndown
- Vented Gauge / Absolute versions
- Accuracy of +/-0.2% of full range
- Temperature compensated output over 0 to 70°C
- IECEx and ATEX certified for use in hazardous Areas (Zone 0)
- Marine Type Approved

Part of the **TankWatch** product group



PSM Instrumentation Ltd, Unit 3 Burrell Road, Haywards Heath, West Sussex, RH16 1TW. UK

PSM is a Scanjet Group Company

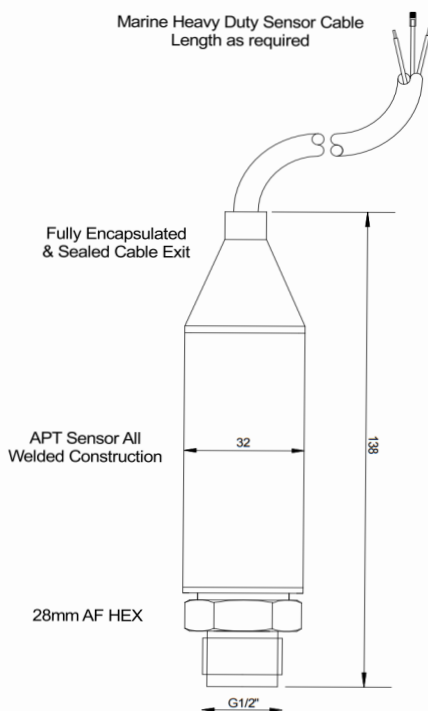
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## Specifications

Materials	Sensor body	316L Stainless Steel or Titanium. Hastelloy C276 option for Wetted parts for external (to tank) mounting.
	Diaphragm	316L or Titanium to match body material. Hastelloy C276 process ports use Tantalum diaphragm.
Standard Measurement Ranges (Bar)	0.2, 0.35, 1.0, 2.5, 4.0, 10, 20, 40. (Other ranges to special order)	
Measurement type	Vented Gauge or Absolute – refer to PSM for availability of ranges	
Overload	2 x Nominal range with no effect	
Span setting accuracy	0.1% within compensated range	
Zero setting accuracy	0.1% within compensated range	
Total Error Band	+/- 0.2% of Nominal range	
Thermal compensation	No thermal effect within the range 0 to 70°C	
Long term stability	Error not exceeding +/- 0.1% Per Annum	
Max / Min process temperature	-35 to +85°C	
IP Rating	IP68 suitable for continuous immersion	
IECEX certification	Refer to PSM for copies of current Certification	
ATEX certification	Refer to PSM for copies of current Certification	
Signal Output / Power supply	4-20mA / 10 to 30V DC (2 wire)	
Maximum load	Supply dependant. $V_s - 10 / 0.02 = \text{Load in Ohms}$	
Weight	0.3Kg typical for body. Cable 0.1Kg / metre	

## Dimensions



The APT500 is part of a family of tank level transmitters and associated instrumentation from PSM.

It is designed to provide robust, reliable and accurate service for all Shipboard applications where its 4-20mA 2 wire signal is connected directly to the ships tank level and pressure monitoring systems

A choice of materials ensure compatibility with all shipboard duties.

PSM's range includes alternative transmitters providing even higher accuracy and full digital communication

Please contact us to discuss the optimum solution for your

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