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**APT 500 Series**  
**Analogue Programmable Pressure Transmitter**  
**for Marine and Industrial applications.**



- Industry standard DIN Plug connection
- Choice of construction materials depending on application
- Robust construction with high overload tolerance
- Nominal measurement ranges from -1.0 to 60 bar
- Programmable calibration allows a 3:1 turndown
- Vented Gauge and 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
- Marine Type Approved for Shipboard application

Part of the **TankWatch** product group

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DAT55A



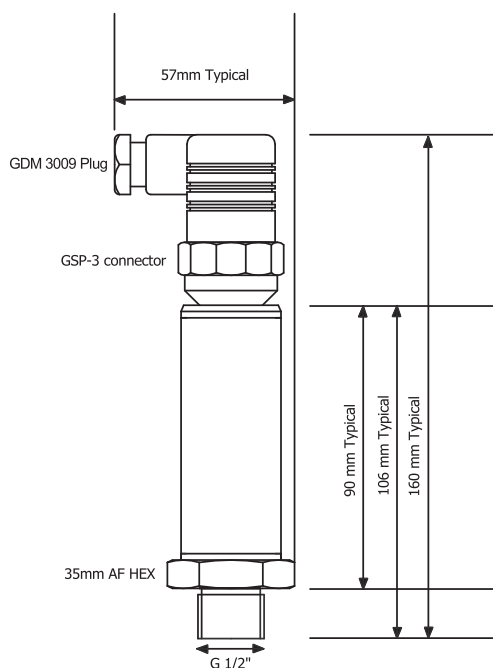
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## Specifications

Materials	Sensor body	316L Standard, optional Hastelloy C276
	Diaphragm	316L standard, optionally Titanium or fully encapsulated in marine grade modified Polyurethane.
Standard Measurement Ranges (Bar)	-1.0, -0.35, -0.2, 0.2, 0.35, 1.0, 2.5, 4.0, 6.0, 10, 16, 25, 40, 60.	
Measurement type	Vented Gauge or Absolute – refer for availability of specific range	
Overload	2 x Nominal range	
Span accuracy	0.1% within compensated range	
Zero accuracy	0.1% within compensated range	
Total Error Band	0.2%	
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	-20 to +85°C	
IP Rating	IP65	
IECEX certification	Refer	
ATEX certification	Refer	
Signal Output / Power supply	4-20mA / 10-30V DC	
Maximum load	Supply dependant. $V_s - 10 / 0.02 = \text{Load in Ohms}$	
Weight	0.35Kg (typical)	

## Dimensions



With a choice of measurement ranges and materials, programmable calibration and excellent accuracy the APT500 series is equally suitable for both marine and land based industrial applications.

Signal output is industry standard 4-20mA 2 wire, which can be supplied to a standard range or calibrated during production to specific needs. The standard data connection and PSM supplied PC based software allow further calibration changes to be made at any time.

The all welded body uses 316L Stainless Steel as standard. Options for the body in Hastelloy and a choice of materials and protection for the sensing diaphragm ensure compatibility with all fluids.

Connection is by industry standard DIN plug.

Integral thermal compensation for actual temperature ensures accuracy is maintained over a wide operating temperature and a state of the art (solid state) measurement element provides excellent long term stability.

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