



APT 500 Series Analogue Level Transmitter for Marine and Industrial applications





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

- 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 Ballast & Draught, Chemicals
- Robust construction with high overload tolerance
- Nominal measurement ranges from 0.2 to 60 bar - factory calibration allows 2:1 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

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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, 0.5, 1.0, 2.5, 4.0, 10, 25, 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	0.2% within compensated range				
Zero setting accuracy	0.2% within compensated range				
Total Error Band	+/- 0.2% of Nominal range at reference conditions of 25°C				
Thermal effect	Max +/- 0.0075% of Nominal range for Zero & Span /°C from reference				
Long term stability	Error not exceeding +/- 0.1% Per Annum				
Max / Min process temperature	-30 to +85°C				
IP Rating	IP68 suitable for continuous immersion				
IECEx certification	IECEx ITS180012X.0 Ex ia IIC T4 Ga -30°C ≤ Ta ≤ +85°C				
ATEX certification	ITS18ATEX203153X Issue 0 Ex ia IIC T4 Ga -30°C ≤ Ta ≤ +85°C				
Signal Output / Power supply	4-20mA / 18 to 30V DC (2 wire)				
Reverse Polarity Protection	Yes				
Maximum load	Supply dependant. Vs-18/0.02 = Load in Ohms				
Weight	0.3Kg typical for body. Cable 0.1Kg / metre				

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 APT1000 transmitters providing 0.1% accuracy and full digital communication. Please contact us to discuss the optimum solution for your application.

PSM is part of the Scanjet Group. Scanjet provide a complete range of tank management instrumentation and systems for both Marine and Industrial applications supported by a global sales and service network

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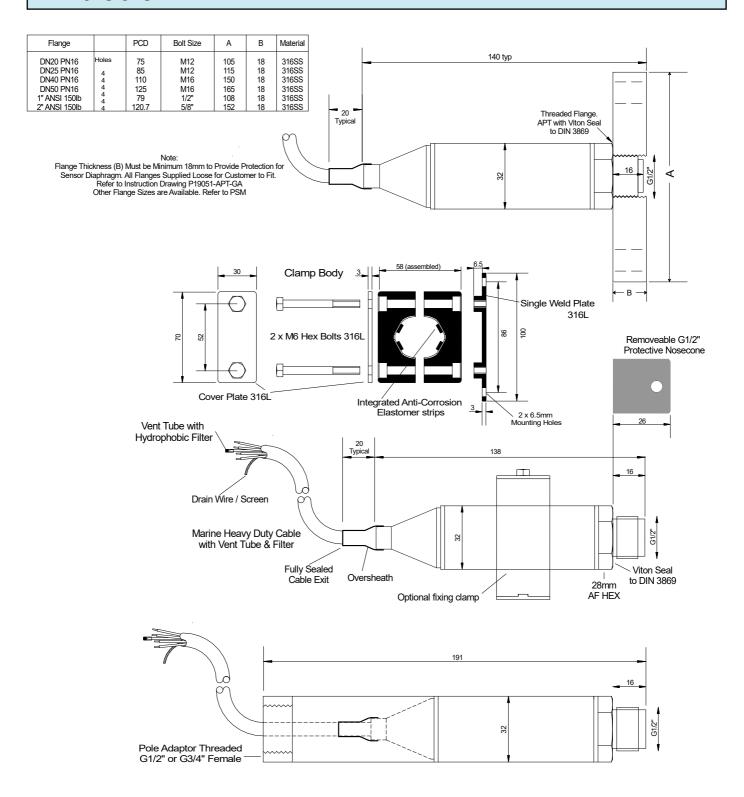


550S	APT 550 4-2	20mA 2 Wire T	ansmitter - Su	bmersible const									
	Certification												
	S Hazardous Area Approval NOT APPLICABLE												
	l v	Certified Intrinsically Safe to ATEX - Hazardous Area Approved											
	X Certified Intrinsically Safe to IECEx - Hazardous Area Approved IX Dual Certification ATEX / IECEx - Hazardous Area Approved												
	Measurement Type												
		A Absolute											
		G Gauge											
			Nominal Range										
				Abs	solute		Gauge						
				TI	SS	HT		TI	SS	HT			
			Α	N/A	N/A	N/A	Α	N/A	0.2 Bar	N/A			
			В	N/A	N/A	N/A	В	0.5 Bar	0.5 Bar	0.5 Bar			
			С	N/A	N/A	N/A	С	1.0 Bar	1.0 Bar	1.0 Bar			
			D	2.5 Bar	2.5 Bar	2.5 Bar	D	2.5 Bar	2.5 Bar	2.5 Bar			
			E	4.0 Bar	4.0 Bar	4.0 Bar	E	4.0 Bar	4.0 Bar	4.0 Bar			
			F	10 Bar	10 Bar	10 Bar	F	10 Bar	10 Bar	10 Bar			
			H	25 Bar	25 Bar	25 Bar	H.	25 Bar	25 Bar	25 Bar			
			J	40 Bar	40 Bar	40 Bar	l J	40 Bar	40 Bar	40 Bar			
				60 Bar	60 Bar	60 Bar		60 Bar	60 Bar	60 Bar			
				1	Process Connections & Fitting Options (options marked ** are not availa 1 1/2" BSP Male (Standard connection). Material is as specified for the ma								
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				6	or maio reaptor in oro etamicos eteci								
				7	Pole Adapter Threaded G 1/2" Female Adapter in 316 Stainless								
				8 Pole Adapter Threaded G 3/4" Female Adapter in 316 Stainless Steel**									
				11									
			St. Steel Sensor with Drain wire adapter - Specify drain wire length in Metres Titanium Sensor with Drain wire adapter - Specify drain wire length in Metres 15 1 " ANSI 150 lb St. Steel Flange (Supplied loose)										
				17	Stilling Pipe Flexible Stainless Steel Cage pipe Installation. Suitable for Stilling Pipe I.D. of 2" to 3" (applicable for all sensor materials).								
				17									
				18		apter Threaded G1/2" Female- Replacement for ICT transmitter ale with Flexible Protection Compound - no Diaphragm Guard							
				22 23	Pole Adaptor			ınd - no Diaphrag	gm Guard				
					1 ole 7 taapter	Cable Length mtrs (only applicable to APT 1000 versions)							
					** Heavy Duty Vented Cable - 3 Metres included as standard								
					Q* *	, ,		metres included as standard set PTFE coated (Subject to Availability)					
					R* *				ant (Subject to Availa	• /			
					S* *				Subject to Availab				
					Z* *			s requirements)	•	,			
						Transmitter Body Material							
						TI	Titanium (Body	y & Diaphragm)					
						SS		I (Body & Diaphra	• ,				
						нт	Hastelloy / Tar	ntalum wetted par					
								Transmitter	Orientation				
							H	Horizontal	roam fooing da				
							V U	Vertical - Diaphi	ragm facing down				
									nitter will be calil	brated for 4			
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>			inal range as sta				
0S	S	Á	E	1	3	TI	Н		oration range is				
								•	sed separately.				
			Written as:	550S/SA/E/1/3/					Johanaioi)				

Optional Extras	
APT Internal Fixing Clamp Assembly	Supplied Loose
Process Connection DN20 PN16 SS Flange with G1/2" Female Threaded Centre	Supplied Loose
Process Connection DN25 PN16 SS Flange with G1/2" Female Threaded Centre	Supplied Loose
Process Connection DN40 PN16 SS Flange with G1/2" Female Threaded Centre	Supplied Loose
Process Connection DN50 PN16 SS Flange with G1/2" Female Threaded Centre	Supplied Loose
Process Connection 1" ANSI 150lb SS Flange with G1/2" Female Threaded Centre	Supplied Loose
Process Connection 2" ANSI 150lb SS Flange with G1/2" Female Threaded Centre	Supplied Loose
APT Demountable Pole Assembly with Top Flange (SS ONLY) - Flange Size to be Confirmed by Customer	Max Length 2000mm
Assembled Length From Underside of Top Flange to End of Sensor TBC	Assembly Supplied Loose



Dimensions



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