



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, 0.35, 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	-20 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 / 10 to 30V DC (2 wire)						
Maximum load	Supply dependant. Vs-10/0.02 = 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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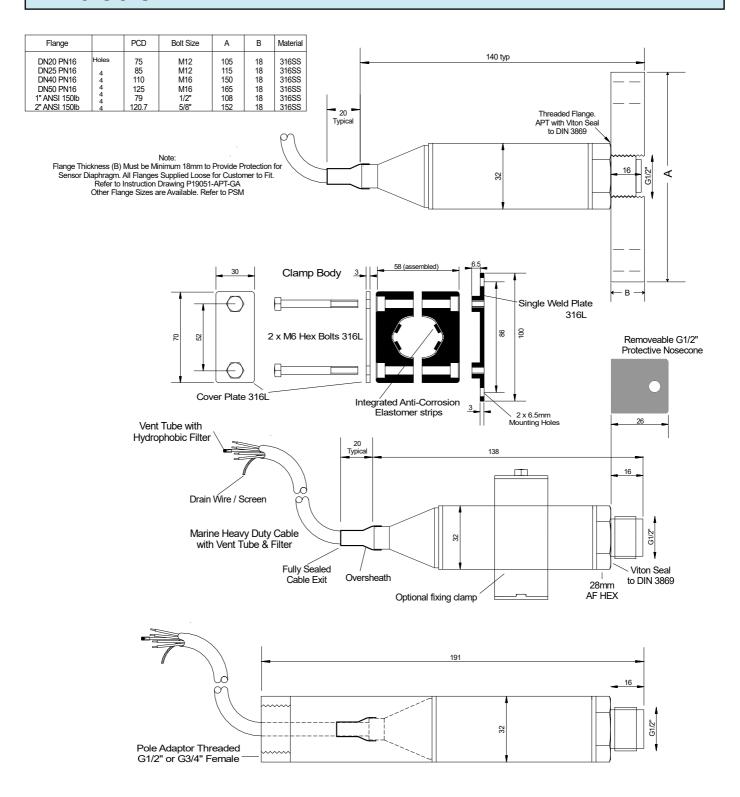


550S	APT 1000 F	oual Mode 4-20	mA & RS485 M	odbus Intelline	nt Transmitter - 9	Submersible co	nstruction with	cable				
3300	AI 1 1000 L	APT 1000 Dual Mode 4-20mA & RS485 Modbus Intelligent Transmitter - Submersible construction with cable Certification										
	S Hazardous Area Approval NOT APPLICABLE											
		I Certified Intrinsically Safe to ATEX - Hazardous Area Approved										
	×		ified Intrinsically Safe to IECEx - Hazardous Area Approved									
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		Duai Goran	04.01.711271712	OLX HALARA	740 7 H OU 7 H P P 1 O T	Measuremer	nt Type					
		Α	Absolute				,,,,,					
		G	Gauge									
			3	Nominal Range								
				Ab	solute		1	G	auge			
				TI	SS	HT		TI	SS	HT		
			Α	N/A	N/A	N/A	Α	0.2 Bar	0.2 Bar	0.2 B		
			В	N/A	N/A	N/A	В	0.5 Bar	0.5 Bar	0.5 B		
			С	N/A	N/A	N/A	С	1.0 Bar	1.0 Bar	1.0 B		
			D	2.5 Bar	2.5 Bar	2.5 Bar	D	2.5 Bar	2.5 Bar	2.5 B		
			E	4.0 Bar	4.0 Bar	4.0 Bar	E	4.0 Bar	4.0 Bar	4.0 B		
			F	10 Bar	10 Bar	10 Bar	F	10 Bar	10 Bar	10 B		
			н	25 Bar	25 Bar	25 Bar	н	25 Bar	25 Bar	25 B		
			1	40 Bar	40 Bar	40 Bar	1	40 Bar	40 Bar	40 B		
			J	60 Bar	60 Bar	60 Bar	J	60 Bar	60 Bar	60 Bar		
					_			(** not available				
				1	for the main bod	ly						
				3 G1" Male Adapter in 316 Stainless Steel 6 G1/2" to DIN EN837 in Stainless Steel (Special order, refer for delivery time) 7 Pole Adapter Threaded G 1/2" Female Adapter in 316 Stainless Steel** 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 12 St.Steel Sensor with Stainless Steel Stilling Pipe Retainers								
										ess Steel**		
				Titanium Sensor with Drain wire adapter - Specify drain wire length in Metres								
				15 1" ANSI 150 lb St. Steel Flange (Supplied loose) 17 Stilling flexible cage pipe Installation (applicable for all sensor materials) Cable Length mtrs (only applicable to APT 1000 versions)								
										;)		
					* *	neavy buty vertied cable - 3 Metres included as standard						
						Q* * As above but cable outer jacket PTFE coated (Subject to Availability) R* * As above but cable outer jacket Flame Retardant (Subject to Availability) S* * As above but cable outer jacket FEP Coated (Subject to Availability)						
					S* * Z* *	Custom cable (refer to discuss requirements)						
						Custom cable	1	s requirements) smitter Body Ma	,			
						TI		/ & Diaphragm)	atorial			
						SS	, ,	, & Diaphraghn) I (Body & Diaphra	iam)			
						HT		ntalum wetted par	• ,			
							actonoj / Tai	Transmitter				
							н	Horizontal				
							 V		agm facing down	1		
							U	Vertical - Diaphi				
							\downarrow	Note: Transm	nitter will be cali	ibrated for		
. 550S	▼	*	V	1	▼	TI	Н	mA over Nom	inal range as sta	ındard. Wh		
Written as		A/E/1/3/TI/H	_	-	-			specific calil	bration range is	s required		
	3303/3/	-, -, 1/0/11/11						must be advis	sed separately.			
								Actual calibra				

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