

7230 HT Multivariable Digital Probe Data Sheet

Proven Magnetostrictive Sensing Performance Integrated with a Modbus or ASCII Digital Multivariable Protocol

The 7230 HT Digital Probe is a new magnetostrictive level measurement probe from Ametek APT for the up-stream oil and gas industry where multi-layer and temperature data is critical to everyday operations.

The 7230 Probe is a level measurement solution that provides both total and interface levels as well as temperature readings from up to 5 discreet positions. All the data is collected by installing a single sensor through a single process connection, eliminating the need for multiple sensors and insertion points. The 7230 Series is approved as Explosion Proof (without intrinsic safety barriers) for Class I, Div. 1 and Zone 1 hazardous locations.

The 7230 is available with a choice of either Modbus RTU or ASCII communication protocols. An optional analog interface module is also available for use with the Modbus RTU output. This option allows for multivariable 4-20mA outputs.

All of this performance is enhanced by Ametek APT's patented magnetostrictive design. Magnetostrictive technology requires no calibration yet provides the highest accuracy of any of the most popular level technologies that are currently offered in today's market. The 7230 Probe is no exception, as it exceeds the high accuracy of the proven 7330 Analog STIK with an impressive accuracy of 0.01% of measured span.

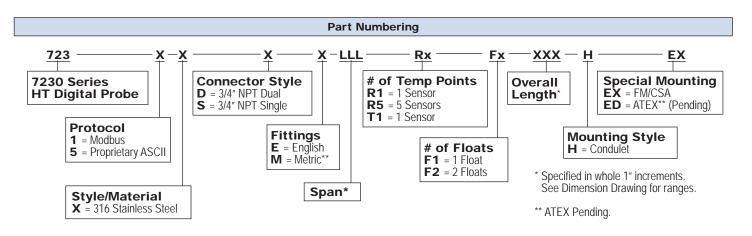
Product Features

- · Multivariable readings
- Modbus or ASCII Protocol
- · High accuracy
- Reliable level measurement
- Material's electrical characteristics and densities do not affect readings
- · Easy to install, no technician needed
- Mixed hydrocarbons will not cause level measurement errors
- · A variety of floats are available



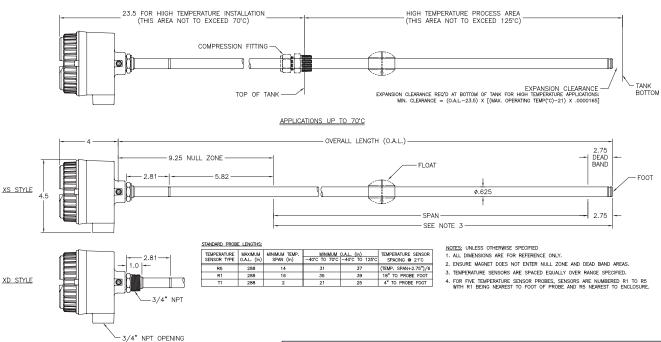
Specifications			
Enclosure Type	Type 4/4X IP66	Approvals	
Output Signal/Protocol	Level, Interface and Temperature 7231: RS-485, Modbus RTU 7235: TTL, Proprietary	FM (US and Canada) XP Class I, Div I, Group A, B, C, D, T4	
Data	7231: Signed, Long, Binary 7235: ASCII	DIP Class II, III, Group E, F, G, T4	
Range Temp.	-40°F to 257°F Process -40°F to 158°F Ambient	Class I, Div I, Group A, B, C, D, T4 Class II, Div I, Group E, F, G, T4	
Pressure Rating, Wetted Parts	316SS Probe: 1000 psi max. Floats Dependent: Consult Factory.	Class III, Div I, T4	
Wetted Parts	316LSS	ATEX, CE Pending	
Probe Length	Up to 24 foot, 21" to 288"	sag	
Accuracy	0.01% of Span		
Power Supply	7231: 10 to 30 VDC 40mA @ 30 VDC max. 26mA @ 24 VDC Typical 7235: 5 VDC, +/-10% Typical 3.7 VDC min. 17mA max.	APPROVED S	
Null Zone	9.25"		
Dead Band	2.75"		
Specifications are subject to change without notice. Patented.			

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Dimension Drawing

HIGH TEMPERATURE APPLICATIONS UP TO 125°C



Accessories			
Item	P/N		
Float Kit: Level Float, 316SS, 2.05° dia., 0.54sg Float, E-clip & spacer	SD0557200		
Float Kit: Interface Float, 316SS, 2.05" dia., 0.96sg Float, E-clip & spacer	SD0556800		
Float Kit: Level Float, Nitrophyl 2.0" d x 3.0" h 0.40sg, E-clip & spacer	SD0548600		
Float Kit: Interface Float (w/Nitro. level float), 316SS, 2.05° dia., 0.96sg, E-clip & spacer	SD0557300		
Adjustable Tube Coupling: 316SS, 5/8" x 3/4" NPT	04283800		
Reducing Bushing: 316SS, 2" x 3/4" NPT	04587241		
Analog Interface Board: Modbus RTU to analog (4-20mA) converter	04534047		

