

7250X Digital Stik Sensor Data Sheet

Proven Magnetostrictive Sensing Performance in a Revolutionary New Package

The 7250X Digital Stik takes f eld proven magnetostrictive sensing technology and packages it in a revolutionary new way for greater reliability and easier installation and mounting. It is ideal for liquid level monitoring, interface level and leak detection in a variety of liquid media in both above ground and underground storage tanks.

The 7250X Digital Stik combines low power consumption with a patented high resolution design. It requires only 5 volts DC making it ideal for mobile, battery operated and wireless applications.

The system has been designed to meet EPA Leak Detection and API Inventory Monitoring requirements and has been approved for use in hazardous environments.

The sensor's electronics are SMT components and integrated into a 5/8" diameter sensing tube. This breakthrough design eliminates the bulky electronics enclosure at the top of the sensor and offers greater options for insertion and mounting.

The probe is constructed of 316 Stainless Steel and comes with a variety of connectors, including a mini connector for quick connect applications, a single 3/4" NPT that can be used with a compression f tting, a double 3/4" NPT for mounting with a f ange or bushing, and a 1/2" right angle for use in low overhead applications.

The 7250 communicates through a single signal. The data is transmitted via asynchronous serial communications and is offered with serial protocol options including an ASCII format. There are other options available to OEMs for use in developing a communications interface with the probe. The patented design

allows for very high resolution on a low power budget. The resolution of the 7250X is 0.0001" with a linearity of 0.01% (See specif cations).

Factory Mutual (FM) certif ed that the 7250X Digital Stik is Intrinsically Safe for use in ethylene and propane (petroleum) applications (See specif cations). The 7250X has been approved to the following standards:

CSA C22.2 Nos. 25,142,157 and 213 FM 3600, 3610, 3611 and 3810 Cenelec EN 50014, 50020 and 50284

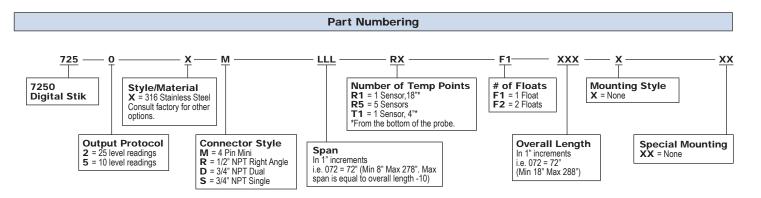
The 7250X has an inherently lower cost design which results in savings. It provides the same performance and reliability as sensors that consume more power. Combining low power requirements with high resolution provides the ultimate performance and reliability.



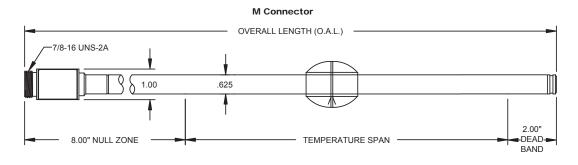
Specifications						
Power Supply Voltage	+5 VDC ± 10% typical (+3.7 VDC min.)	Probe Length Stainless Steel R Style	21" to 288"			
Current (at +5 VDC)	10mA max. (8mA typical) plus 1.5mA max. (1mA typical) per temperature sensor	Stainless Steel D, S, M Style	20" to 288"			
		(Probes available in 1" increments)	Consult Factory for longer lengths			
Operating Temperature Sensing Area	-40°C to 100°C (Non Hazardous Location) -40°C to 70°C (Hazardous Location) -40°C to 70°C	Hazardous Areas Approvals FM -40° ≤ Tamb ≤ 70° C Class I, II, III, Div. 1	C FM US APPROVED			
Pressure Rating	Steel Probe: 1000 psi max. Float: Dependent. Call Factory.	Groups C, D, E, F, G, T4 Class I, Div. 2				
Resolution	0.0001" (Protocol Dependent)	- Groups A, B, C, D, T4 Class I, Zone 0, AEx ia IIB T4				
Repeatability	Equal to Resolution	ATEX				
Linearity	Probes up to 288": ± 0.01% of span or ± 0.015", whichever is greater.	Ex ia IIB T4				
Hysteresis	Probes up to 288": ± 0.002% of span or ± 0.005", whichever is greater.	NEMKO 05 ATEX 1219X C € 0344 € II 1G				
Null Zone	R Style: 9" D, S and M Style: 8"	Sanitary Approvals ®				
Dead Band	2"	/^(
Intrinsically Safe Barrier	See Installation Drawing E0241200. Consult Factory.	/ 3 \				
Enclosure Material Rating	316 Stainless Steel IP68	74-04				
Specifications are subject to change without notice. Patented.						

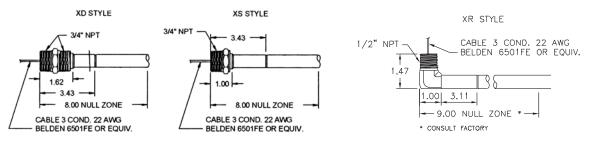


7250X Digital Stik Stainless Steel Sensor



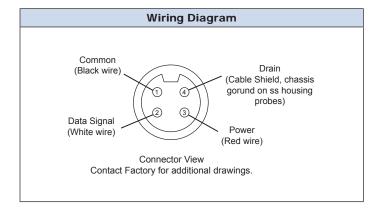
Dimension Drawing





Accessories				
Item	Part Number			
Float Kit, 316 SS, 2.05" Diameter w/ E Clip and Spacer 0.54s.g.	SD0515000			
Float Kit, Nitrophyl, 2.02" Diameter w/ E Clip and Spacer 0.40s.g.	SD0536500			
Cable Assembly, 4 pin, 6 feet long (M style only)	01533141			
Adjustable Tube Coupling 5/8" x 3/4" NPT	04283800			
Junction Box, side mount, N4X with zero & span push buttons	SD0536101			
Bushing, 3/4" x 2" NPT 316SS	04587241			

Intrinsically Safe Entity Parameters						
V _{max}	I _{max}	PI	CI	L _I		
7.93 V	280mA	1.0 W	30.1µF	0μΗ		





7250X.D5R 05/12.Z193