

## 7100 Leak Detect Stik Product Data Sheet

The 7100 Stik Liquid Level Sensor takes field proven magnetostrictive sensing technology and packages it in a revolutionary new way for greater reliability and for easy installation and mounting. It is ideal for liquid level monitoring of product level, interface level and leak detection in a wide variety of liquid media in both above ground and below ground storage tanks.

## All The Electronics Are Down The Tube

All sensor electronics are SMT components integrated into the 5/8" diameter sensing tube. Sensors are available in stainless steel or flexible PVDF housings. The stainless steel version has either a mini connector or a right angle conduit fitting. The flexible PVDF version is available with a threaded fitting and a 2' cable (see dimensional drawing on reverse side for connector details).

This breakthrough in package design eliminates the bulky electronics enclosure at the top of the sensor and offers you greater options for insertion and mounting in tanks and vessels. In addition, standard float packages are available which allow sensor insertion into tank openings as small as two inches. The 316 stainless steel version is a totally welded construction, and has a cathodic protection boot for use in a wide variety of applications. The Flex-Stik™ version employs a flexible housing and provides cost effective level monitoring in deep tanks.

The all SMT electronics have PPM (Pulse Position Modulated) outputs for product and interface level and for temperature measurement, which are all superimposed on the two wire power line. All units are Intrinsically Safe and approved for use in hazardous locations.

The 7100 Liquid Level Sensor's inherently lower cost design provides more options, offers savings on installation and mounting and has the ultimate in "designed-in" reliability.



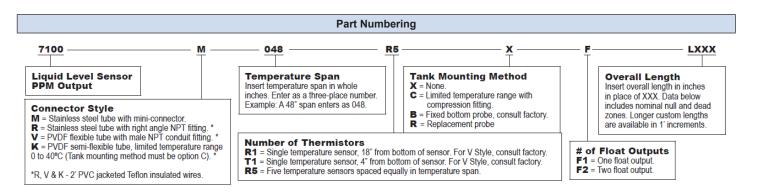


Specifications	
Input Voltage	16 to 31 VDC
Sensor Length	Stainless Steel up to 24' PVDF up to 50'
Enclosure Rating	Material 316 SS or PVDF, IP 68
Typical Level Resolution (Controller Dependent)	0.010" Inventory Mode 0.001" Leak Detection Mode
Linearity	+/- 0.01% of Full Scale +/- 0.010", whichever is greater
Repeatability	+/- 0.001% of Full Scale +/- 0.00025", whichever is greater
Temperature Measurement	Up to 5 along the sensor span
Temperature Accuracy, Absolute	+/- 2°F
Typical Temperature Resolution (Controller Dependent)	+/- 0.01°F
Temperature Sensing Range	- 40°F to +158°F or -40°C to 70°C
Operating Temperature Range	- 40°F to +158°F or -40°C to 70°C
Sensor Output	Pulse Position Modulated
Distance to Monitor	Over 1000' using twisted pair wire
Floats (not included)	Specs based on 4" standard floats
Approvals	NORTH AMERICA CLASS I,II,III, DIVISION 1, GROUPS D,E.F.G.: T4 (7100 K&V) GROUPS C,D.E.F.G.: T4 (7100 M&R) Exia SECURITE INTRINSEQUE  EUROPEAN UNION IEC CE 0575 II 1 G Ex ia IIA T4 Ga (7100 K&V) Ex ia IIB T4 Ga (7100 K&V) Ex ia IIB T4 Ga (7100 K&V) EX ia IIB T4 Ga (7100 K&V) LISTED 14X7 LISTED 14X7 LISTED 14X7

Specifications are subject to change without notice. Patented

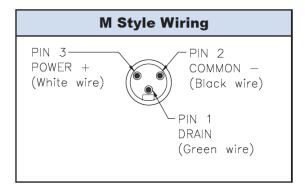


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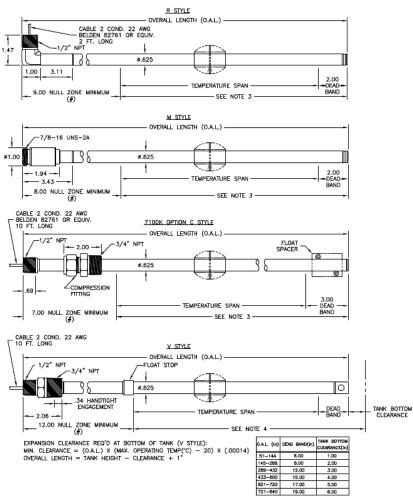
## **Dimension Drawing**





Install per installation drawing No. E0234300

**INSTALLATION NOTE:** On probe with Connector Style V (Flexible Tube), installation into tank must be completed within 12 months of shipment date. This will minimize any damage caused by storing the probe in a coiled position.



NOTES: UNLESS OTHERWISE SPECIFIED

- LO PERAINE SPECIFICATION OF K-C STYLE PROBE IS 0-40°C (32-104°F)

  2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

  3. THERMISTORS ARE SPACED EQUALLY OVER RANGE SPECIFIED.

  4. THERMISTORS ARE SPACED EQUALLY OVER TEMPERATURE SPAN + DEAD BAND + TANK BOTTOM CLEARANCE