

"WIRELESS SYSTEMS AND COMMUNICATION SOLUTIONS"

Wio® Flexible Digital Level Sensor

The OleumTech Flexible Digital Level Sensor takes field proven magnetostrictive sensing technology and packages it in an exclusive design for greater reliability, easier installation and mounting. It is ideal for liquid level, interface level and measuring temperature in a variety of liquid media found in virtually all tank sizes.

The Level Sensor combines low power consumption with a patented high resolution design and provides the same performance and reliability as sensors that consume more power. By combining low power requirements with high resolution, the Level Sensor provides the ultimate performance and reliability.

The Level Sensor eliminates the need for costly cable and conduit runs on both new projects and retrofits, and replaces them with a low-maintenance, versatile and robust wireless solution.

The system design meets EPA Leak Detection and API Inventory Monitoring requirements and has been approved for use in hazardous environments.

The Level Sensor's electronics are SMT components integrated into a 5/8" diameter sensing tube. The design provides for easy insertion and mounting in tanks.

The Level Sensors are available in semi-flexible PVDF (polyvinylidene fluoride) in lengths up to 50 feet, making it ideal for use in tall tank applications. PVDF material provides an excellent option for monitoring chemicals not compatible with stainless steel.

The Level Sensor is Intrinsically Safe and certified to meet applicable FM & CSA standards. The resolution of the Flexible Digital Level Sensor is 0.01" with linearity of 0.01%.

Integrate OleumTech "Wireless Systems and Communication Solutions" into new or existing systems and enjoy the benefits of tomorrow's low cost, innovative wireless technology today.



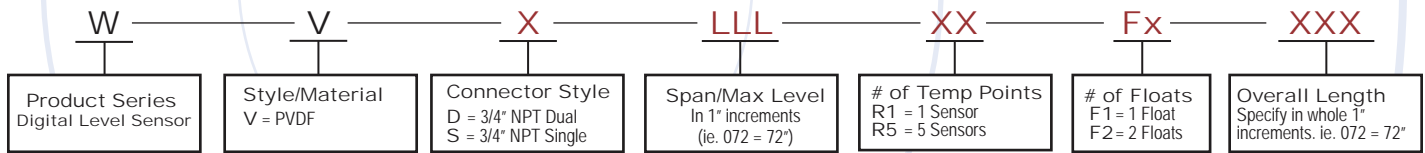
APPLICATIONS

Process Control Bulk Storage Product Level and Interface Level Temperature Monitoring

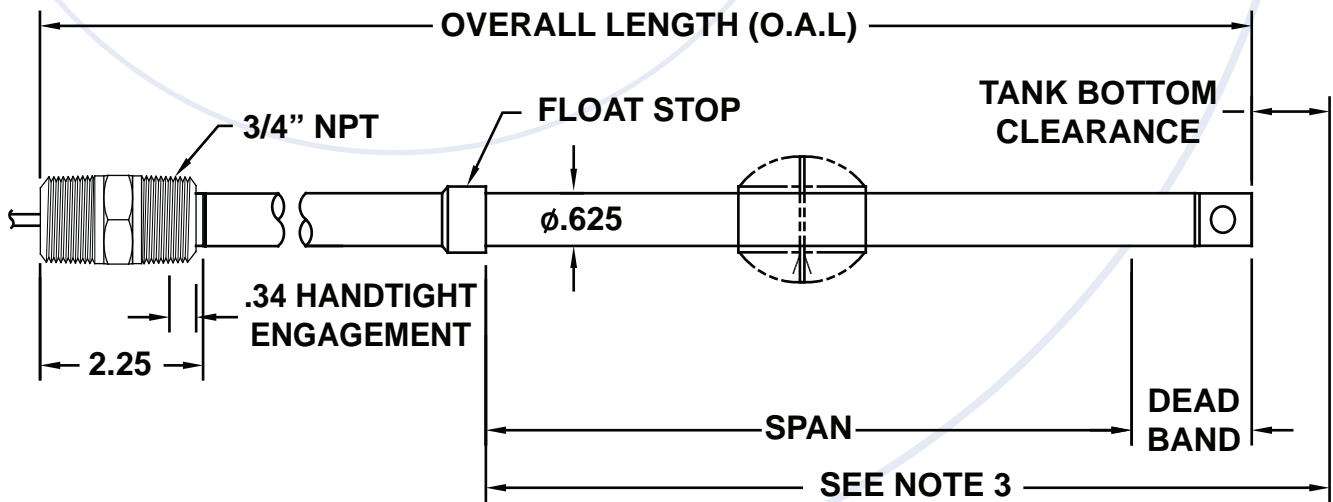


Flexible Digital Level Sensor

Flexible Digital Sensor Part Numbering



Flexible Digital Sensor with V Style Connector

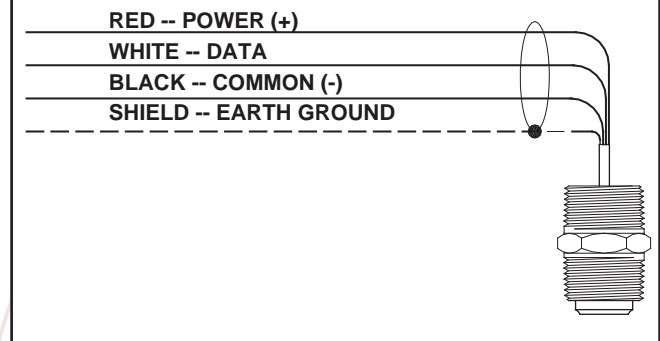


NOTES: UNLESS OTHERWISE SPECIFIED

1. All dimensions are for reference only.
2. Temperature sensors are spaced equally over range specified.
3. Temperature sensors are spaced equally over temperature Span + Dead Band + Tank Bottom Clearance.

Specifications

Measured Variable: Level Temperature	Product level and interface level Average and multi-point (1 to 5 temperature points)
V Style Probe Length	up to 600", Probes available in 1" increments.
Material	PVDF (Polyvinylidene Fluoride)
Operating Temperature Sensing Area Electronics Area	-40°C to 70°C (Hazardous Location) -40°C to 70°C
Sensor Pressure Rating	150 psi, float dependent
Resolution	0.01"
Repeatability	Equal to Resolution
Linearity	Probes 193" to 600": ± 0.01% of span or ± 0.039", whichever is greater.
Hysteresis	Probes 193" to 600": ± 0.002% of span or ± 0.005", whichever is greater.
Null Zone	12"
Dead Band	6" to 14" (dependent on sensor length)
Sensor Enclosure Material Rating	IP68
Hazardous Areas Approvals	FM -40° ≤ Tamb ≤ 70° C Class I, II, III, Div. 1, Groups C, D, E, F, G, T4 Class I, Div. 2, Groups A, B, C, D, T4 Class I, Zone 0, AEx ia IIB T4



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