

## Magnetostrictive Liquid Level Sensor

The OleumTech H-Series, Continuous Liquid Level Sensor, delivers a proven magnetostrictive sensing technology and packages it in an exclusive design for greater reliability, easier installation and mounting. H-Series sensor is extremely versatile and suitable for level monitoring in a wide variety of liquids and tank applications.

The H-Series combines low power consumption with a 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 H-Series Sensor provides the ultimate performance and reliability.

The Liquid Level Sensor, H-Series, designed for use in hazardous environments and as such, meets EPA Leak Detection and API Inventory Monitoring requirements.

### Product Features:

- Modbus RTU Communication Protocol
- 3-in-1 Measurement Capability
  - Product (Total) Level
  - Interface Level
  - Temperature Average
- High Accuracy and Repeatability: 0.01% full scale
- Easy Installation
- No Maintenance or Re-calibration Required
- Field Programmable Span and Calibration
- Intrinsically Safe
- Proven Magnetostrictive Technology
- CSA & FM

### Typical Industry/Applications:

- Oil & Gas
- Industrial Process Control
- Petro-Chemicals
- Custody Transfer Applications
- Inventory Control Applications
- Tank Monitoring Applications
- Process/Batch Level Applications

### Wireless Options Available



### H-Series



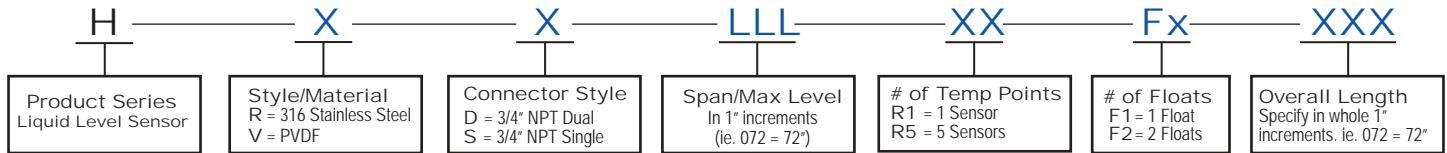
Rigid  
Style Probe

Semi-flexible  
Style Probe

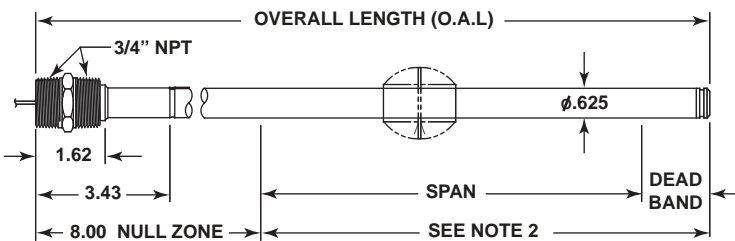


# H Series Liquid Level Sensor

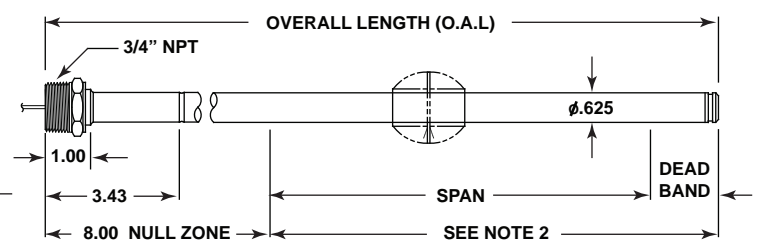
## Liquid Level Sensor Part Numbering



### Sensor with D Style Connector



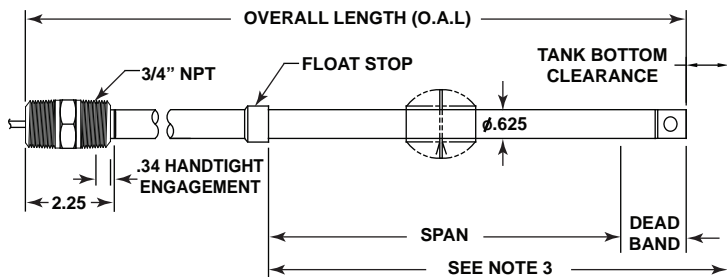
### Sensor with S Style Connector



#### NOTES: UNLESS OTHERWISE SPECIFIED

1. All dimensions are for reference only.
2. Temperature sensors are spaced equally over range specified.
3. Overall length includes 12" for combined null zone, dead band and tank bottom clearance.

## Flexible Sensor with V Style Connector



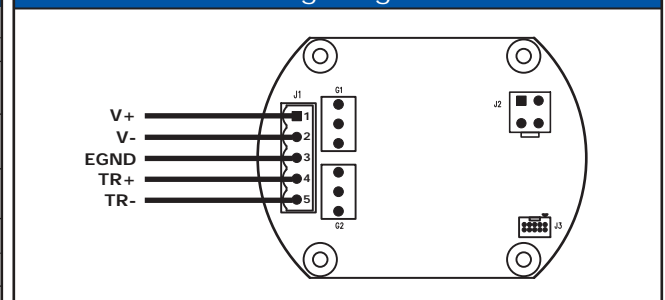
#### NOTES: UNLESS OTHERWISE SPECIFIED

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 Output	Product level and interface level
Temperature Output	Average and multi-point (1 to 5 temperature points)
Rigid Style Probe Length	up to 288", Probes available in 1" increments.
Flexible Style Probe Length	up to 600", Probes available in 1" increments.
Material - R Style Probe	316 Stainless Steel
Material - V Style Probe	PVDF (Polyvinylidene Fluoride)
Operating Temperature Sensing Area	-40°C to 70°C (hazardous location)
Electronics Area	-40°C to 70°C
Power Consumption	14mA (max) 12Vdc
Operating Voltage	8 to 12Vdc
Sensor Pressure Rating - R Style	1000 psi, float dependent
Sensor Pressure Rating - V Style	150 psi, float dependent
Resolution	0.01"
Repeatability	Equal to Resolution
Linearity - Rigid Probe	± 0.01% of span or ± 0.015", whichever is greater.
Linearity - Flexible Probe	Probes 193" to 600": ± 0.01% of span or ± 0.039", whichever is greater
Hysteresis - Rigid Probe	± 0.002% of span or ± 0.005", whichever is greater
Hysteresis - Flexible Probe	Probes 193" to 600": ± 0.002% of span or ± 0.005", whichever is greater
Null Zone - Rigid Probe	8"
Null Zone - Flexible Probe	12"
Dead Band	6" to 14" (dependent on sensor length)
Enclosure Material Rating	IP68
Probe Hazardous Areas Approval	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

### Wiring Diagram



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