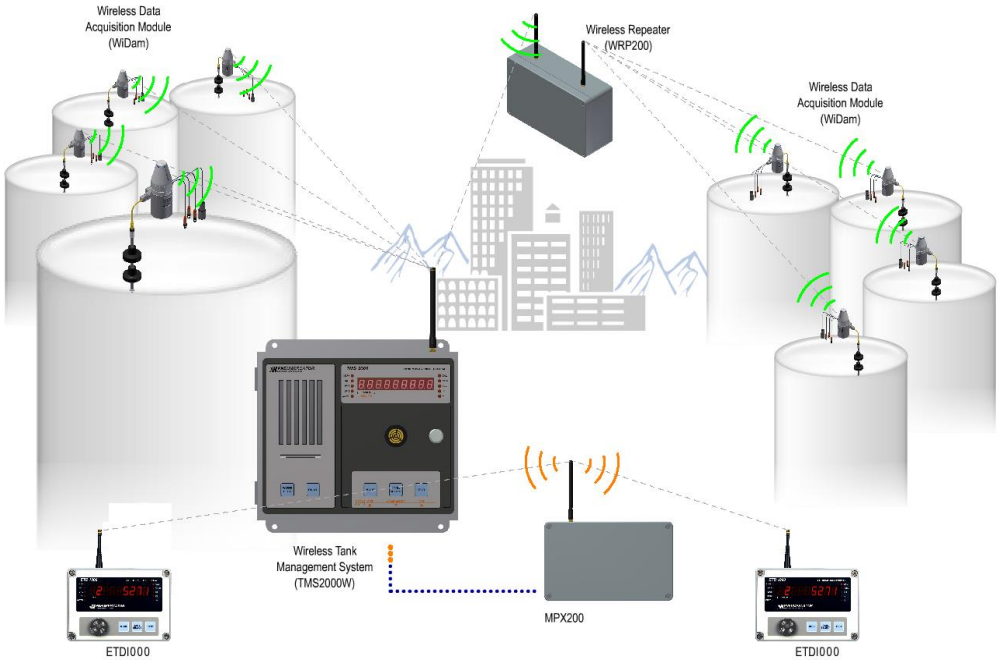
Wireless, Battery-Powered, Tank Gauging Module including 4 Sensor Inputs for EPA-Compliant Secondary Containment Leak Detection



Product Description

The WiDAM Wireless Data Acquisition Module provides accurate and reliable magnetostrictive tank gauging and secondary containment leak detection for above and below-ground liquid storage tanks without the high cost of running wiring conduits between the tanks, sensors and the monitoring TMS console. Instead, the WiDAM transmits data wirelessly using a high reliability, frequency hopping spread spectrum (FHSS) radio that is extremely tolerant of background electrical noise present in most industrial environments. The WiDAM is self-contained, including ultra-low power microprocessor, radio transceiver, antenna and long-life lithium battery module, all housed in a NEMA 4X weatherproof and corrosionproof enclosure suitable for installation within a hazardous-classified area. Safety interlock feature allows battery replacement without removing WiDAM from the hazardous location. Several mounting bracket kits are available for AST and UST installations.

Specifications

- Radio: 902-928 MHz FHSS, 2.4 GHz optional
- Probe / Sensor Capacities: 1 Magnetostrictive Probe for Product and Water Level, Product Temperature
  4 Leak or Point-Level Sensors (maximum 3 discriminating), Supervised Wiring Ready
- Compatible Systems: TMS2000W console, 12 tank, 40 sensor capacity
  TMS4000W console, 32 tank, 128 sensor capacity
- Power Requirements: Pneumercator Ultra-High Capacity Lithium Battery Pack P/N 900621-1-4
  w/Safety Interlock
- Battery Life: Up to 4 years, depending on update rate and power save mode. Continuous battery status reported to TMS.
- Construction: Epoxy Powder Coat Aluminum Alloy Housing, HDPE Cover
- Dimensions: 12.4” (315 mm) H x 4.5” (114 mm) Dia (5.5” (140 mm) W across hubs)
- Weight: 6 lb (2.7 kg) (w/Battery Pack)
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 ºF to 160 ºF (-40 ºC to 70 ºC)
- Enclosure Rating: NEMA 4X (IP56), UV-rated
- Conduit/Hub Connections: 2 x 3/4” Female NPT
- Supplied Hubs: Two Non-Metallic, 3/4” Compression Hubs
  Probe: Single Cable Entry
  Sensors: Four Cable Entries

PNEUMERCATOR Liquid Level Control Systems
Pneumercator Company, Inc.
1785 Expressway Drive North
Hauppauge, New York 11788
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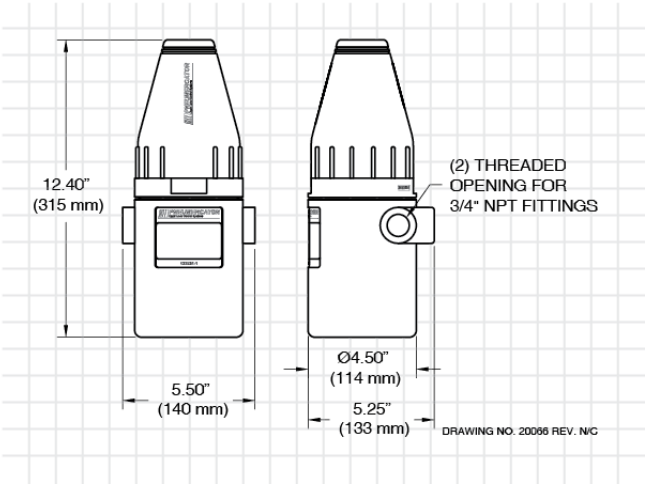
WiDAM Wireless Data Acquisition Module — Specifications



Probe

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- Accuracy (Minimum):

MP55xS:		MP56x:	
Product Level:	0.0005" (0.013 mm)	Product Level:	0.01" (0.25 mm)
Water Level:	0.001" (0.025 mm)	Water Level:	0.01" (0.25 mm)
Temperature:	0.1 ºF (0.06 ºC)	Temperature:	0.1º F (0.06 ºC)

- Materials: Shaft: 316 SS or PVDF
  Floats: Urethane, 316 SS, Buna-N, or PVDF
- Mounting: Inventory Only: 2" minimum riser (4" preferred) or direct bushing / flange mount
- Temperature Sensing: Single sensor standard. Five sensor array available
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 ºF to 175 ºF (-40 ºC to 80 ºC)
- Operating Pressure: 150 PSIG (1034 kPa) 316 SS, 50 PSIG (345 kPa) PVDF
- Field Wiring: 22AWG, 3-Conductor w/ shield and drain wire
  Belden 6501FE or equiv., maximum length 50' (15.2 m)
- Models: MP55xS Series rigid SS max. length 24' (7.3 m)
  MP56x Series flex. PVDF max. length 70' (21.3 m)

Sensors

- ES825-400FL — Electronic, Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- ES825-300FL — Electronic, Non-Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- LS600LD — Float, Containment, Manway and Piping Sumps, Dispenser Pan
- LS600xx — Multi-Float, High / Low Level and Pump Control
- RSU800 — Float, Wet Annular / Reservoir
- LS610 — Float, Dry Annular
- HS100NDL — Polymer – Dry Containment, 1' (305 mm) to 6' (1829 mm) length

Most sensors are available with Fault-Detect Supervised sensor and wiring option. Add "FL" Suffix to Model Number

Note: Specifications subject to change without notice. 01-12-2018

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