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STS-LTE-100



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The STS-LTE-100 is an intrinsically safe tank monitoring sensor designed for small tanks and totes, including stainless steel and poly totes with a bung hole opening. Installation requires no tools, as the sensor can be securely attached to the tank with just hand tightening.

The STS-LTE-100 can measure the fluid level in the tank with millimeter precision. This allows you to monitor the usage and flow rates of the tank for optimal efficiency. With the included GPS technology, STS-LTE-100 allows you to both track and locate tanks in the field. The sensor is designed for hazardous chemicals and meets Intrinsically Safe Class 1, Division 1, ABCD requirements.

The STS-LTE-100 uses contactless measurement technology and can be configured to report based on events, level change and time via LTE connectivity. The sensor can detect impacts in the field and whether the tank is being transported to another location. The STS-LTE-100 battery is designed to last up to 10 years with daily reporting (contingent on the operating environment).

Specifications:

Mechanical	
Enclosure	
Dimension, Estimated weight	14.5x13.2x7.5 cm, 278 gms
Mounting	Screw-on
Electrical	
Primary cell (non-rechargeable) Equipment powered by a single Li-SOC12 D-cell. Non-replaceable.	
Max nominal voltage, continuous current	3.6V, 100mA
Input rating	
Supply voltage, Max power consumption	3.6V, 0.4W
Communication	
LTE	Internal patch, 1559–1577 MHz, gain <1dbi
GNSS/GPS	Internal patch, 690–2700 MHz, gain <6dbi
Bluetooth	IC module, 2.402 - 2.480 GHz, Transmit power 8dBm (0.0063W)
LTE Cat M1, LTE Cat NB2	IC module, 1920–1980 MHz, Transmit power 21dBm (0.13W)
Environmental	
Operational/storage temperature range	-35°C to +60°C
Ingress protection	IP 65, Outdoor use
Humidity limit	0-100% relative