



Wireless Liquid Level Sensor

Technical Overview

General Description

The OEM RF Wireless liquid level sensor uses a solid state, continuous (multi-level) fluid level sensor for measuring levels in water, non-corrosive water based liquids and dry fluids (powders).

Features

- Detects level of water or liquid in a container.

Principle of Operation

The OEM Wireless liquid level sensor uses a solid-state, resistance sensitive ribbon sensor to measure the level of a liquid in a container. User customization allows you to set the frequency of sensor readings. The readings are sent to the sensor monitoring software. All data is stored in the software where it can be reviewed and exported as a data sheet or graph. Notifications can be set up to alert the user when motion has been detected.

OEM Sensor Core Specifications


- Power: 3.0 V coin cell battery
- Communication: RF 900, 868 and 433 MHz
- Antenna: 4" wire antenna
- Operating Temperature: -40° to 85°C (-40° to 185°F)
- Device Range: 250 - 300 ft. non-line-of-sight*
- Only 1 inch by 1 inch

* Actual range may vary depending on environment.

Applications

- Monitor container levels.
- Track non-corrosive fluid levels.

Specifications

Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 μ A (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Electronics Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Available Operating Frequencies	900 MHz (25 Channels), 868 MHz (5 Channels) and 433 MHz (15 Channels)
Ribbon Sensor Length / Active Length	10.1" (256.5mm) / 8.6" (218.4mm)
Ribbon Sensor Width	1.0" (25.4mm)
Ribbon Sensor Thickness	0.015" (0.381mm)
Sensor Resolution	1/32 inch (0.794mm)
Actuation Depth	Nominal 1 inch (25.4mm)
Sensor Material	Polyethylene Terephthalate (PET)
Certifications	 900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

* Hardware can not withstand negative voltage. Please take care when connecting a power device.

** At temperatures above 100°C, it is possible to lose programmed memory.

For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at www.oemsensors.com.

OEMSensors.com | 7304 South Cottonwood, Suite #204 | Midvale, Utah 84047 | 801-561-5555 | www.oemsensors.com