Ultrasonic Fluid Level

The IONIT model 9071 is a wireless, battery-powered ultrasonic fluid level device that makes measuring and remotely monitoring fluid levels easy and accurate. Using RF communications, the 9071 transmits fluid readings regularly to any IONIT 9400 Hub and relayed to the IONIT Cloud software. Ideal for remotely monitoring domestic and commerical heating oil, other oil products, water, waste water and more. Works with traditional style and double-walled tanks.

Product Dimensions

- Length: 1.55 in (4.0 cm)
- Width: 2.75 in (7.0 cm)
- Height: 5.59 in (14.2 cm)
- Weight: 0.17 lbs (0.08 kg)

Shipping Dimensions

- Box Length: 2.25 in (5.7 cm)
- Box Width: 3.25 in (8.3 cm)
- Box Height: 6.75 in (17.2 cm)
- Box Weight: Less than 1 lb. (<0.45 kg)

Features

- Fast Install: Plug & play
- QR code for quick setup and geo-locating
- Onboard ultrasonic fluid level sensor
- Onboard temperature sensor

Operating Characteristics

- Temperature Range: 14 to 140 degrees F
- Radio Frequency: 915 MHz
- Transmission Occurrence: Once per Hour
- Data Payload Size: 50 KB
- Expected Battery Life: 5 years
- 1-Year Limited Warranty

Available Models

- ION-9071: with gasket and mounting screws (bung adapters sold separately)

ION-9071 SPECIFICATIONS	English	Metric
Dimensions	2.75in (W) x 1.55in (L) x 5.59in (H)	70mm (W) x 40mm (L) x 142mm (H)
Weight	0.2lbs	93g
Housing Material	UV Stabilized Polypropylene	
Operating temperature (Note 1)	14°F to 140°F	-10°C to 60°C
Storage Temperature (Note 1)	-4°F to 140°F	-20°C to 60°C
Altitude range	<1.2miles above sea level	<2Km above sea level
Radio frequency	USA: 914.5 MHz FM	
Radio output power	USA: 0dBm +/-2dBm	
Ultrasonic range (Note 2)	>4.7in to <9.8ft	>12cm to <3M
Ultrasonic signal diversion	30° : the maximum spatial diversion of the ultrasonic signal will be < 30° from the central axis of the transducer	
Power requirements	VARTA CR2450 3V Li-Manganese dioxide / Organic Electrolyte (fitted)	
Battery life	> 5 Years	
Humidity range	15% - 95%	
Ultrasonic Resolution	±0.4in	±1cm
Accuracy	Typically ±0.8in from 4.7in to 9.8ft	Typically ±2cm from 12cm to 3m
Material compatibility	Suitable for use in tanks for the storage of water, diesel fuel, kerosene, heating oil.	

Note 1: Storage and operation above 68°F (20°C) may reduce battery life.

Note 2: Based on a measurement to a flat liquid target of size $1ft^2$ ($30cm^2$).