

Tank Sensor (TEK-377)

Tekelek's ultrasonic liquid level sensor provides accurate and reliable liquid level measurement.

Applications

- Fuel Tanks – Oil, Kerosene, Adblue
- Commercial or Domestic Water Tanks
- Interior, Exterior & Underground Tanks
- Double Skinned/Bunded Tanks

Benefits

- Monitor tank levels from comfort of your own home
- Easy to install
- Measurement resolution of 1cm
- Communication distance to receiver typically greater than 200m (150 ft USA variant)
- Mains powered receivers with display available with EU, UK, USA, AUS/NZ plug formats
- RMS Compatible for longer distances (PTSN & GSM Modems)
- CE Conformance and ROHS Compliant
- Long lasting battery
- Minimum 1 year warranty



Specification

Characteristic	Transmitter	Display Receiver (with mains plug)
Dimensions	70mm (W) x 40mm (L) x 138mm (H) ±1mm	EU: 50mm (W) x 70mm (D) x 199mm (H) ±3mm UK: 50mm (W) x 55mm (D) x 199mm (H) ±3mm USA: 50mm (W) x 51mm (D) x 135mm (H) ±3mm AUS/NZ: 50mm (W) x 59mm (D) x 199mm (H) ±3mm
Weight	78g	EU: 70g UK: 70g US: 60g AUS: 71g
Housing Material	UV Stabilized Polypropylene	ABS
Operating temperature	-10°C to 60°C (Note 1)	-10°C to 60°C
Storage Temperature	-20°C to 60°C (Note 1)	-20°C to 60°C
Altitude range	<2Km above sea level	<2Km above sea level
Environmental Protection	IP67 - Outdoors	IP44 Indoors only
Radio frequency	EU/UK/NZ/AUS: 433.92 MHz FM USA: 914.5 MHz FM	N/A
Radio output power	EU/UK/NZ/AUS: 5dBm +/- 2dBm USA: 0dBm +/-2dBm	N/A
Receiver Sensitivity	N/A	-100dBm to -110dBm @ 0.001 BER
Ultrasonic range	>12cm to <3M (Note 2)	N/A
Ultrasonic signal diversion	30° (Note 3)	N/A
Material compatibility	(Note 4)	N/A
Power requirements	VARTA CR2430 3V Li-Manganese dioxide / Organic Electrolyte (fitted)	EU/UK/NZ/AUS: 230V AC 50-60Hz, 20mA USA: 115V AC 60Hz, 30mA
Battery life	> 5 Years	N/A
Humidity range	15% - 95%	15% - 95%
LCD Display	N/A	10 level bar graph with refill/error icons
Ultrasonic Resolution	±1cm	N/A
Accuracy	Typically ±2cm from 12cm to 3m	N/A

Accessories

Adapter	1½" BSP external thread adapter, 70mm (W) x 49mm (D) x 27mm (H) – (Included with European versions) 2" NPSM external thread adapter, 79mm (W) x 70mm (D) x 16mm(H) - Optional
Gasket (included)	Material EPDM, 70mm (W) x 40mm (D) x 4mm (H) ±1mm Distance between hole centres 50mm ±1mm
Screws (included)	No.8 X 19mm Panhead Pozi-drive Stainless steel
Bund switch option	Can be supplied with Bund switch for double skinned tanks -- 3m cable

Note 1: Storage and operation above 20°C may reduce battery life.

Note 2: Based on a measurement to a flat liquid target of size 30cm².

Note 3: The maximum spatial diversion of the ultrasonic signal will be < 30° from the central axis of the transducer.

Note 4: Suitable for use in tanks for the storage of water diesel fuel, kerosene, AdBlue, gas oil types A2,C1,C2 and D as defined by BS2869.