

GREMLIN® HEATING OIL MONITOR SPECIFICATION (CELLULAR)

Characteristic	Transmitter
Dimensions	101mm (W) x 93mm (L) x 150mm (H) ±1mm
Weight	530g including 4 x C size batteries/290g without batteries
Housing Material	UV Stabilized Polypropylene (compatible with Oil)
Operating Temperature	-20°C to 50°C (Note 1)
Storage Temperature	-30°C to 60°C (Note 1)
Altitude Range	<2Km above sea level
Environmental Protection	IP67 – Outdoors
Radio Frequency:	Cat M1/Cat NB1: LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28 LTE TDD: B39 (For Cat M1 Only)
Radio Frequency:	EGPRS: 850/900/1800/1900MHz
Gauge Type	Ultrasonic
Ultrasonic Range	>12cm to <4M (Note 2)
Ultrasonic Signal Diversion	30° (Note 3)
Ultrasonic Resolution	±1cm
Accuracy	Typically ±2cm from 12cm to 4m
Material compatibility	(Note 4)
Power requirements	4 of Type C LR14 Alkaline 1.5V (fitted)
Battery life	5 Years (Note 5)

Accessories

SIM Card	Options available
Tank mounting options	Fit directly into 1 ¼", 1 ½" or 2" BSP existing tank connection
Bund switch option	Can be supplied with Bund switch for double skinned tanks – 3m cable

Conformity

EMC directive 2014/30/EU	The Electromagnetic Compatibility (EMC) Directive ensures that electrical and electronic equipment does not generate, or is not affected by, electromagnetic disturbance.
LVD directive 2014/35/EU	The Low Voltage Directive (LVD) ensures that electrical equipment within certain voltage limits provides a high level of protection for European citizens, and benefits fully from the Single Market.
RED directive 2014/53/EU	The Radio Equipment Directive ensures a Single Market for radio equipment by setting essential requirements for safety and health, electromagnetic compatibility, and the efficient use of the radio spectrum.
RoHS directive 2011/65/EU	This Directive lays down rules on the restriction of the use of hazardous substances in electrical and electronic equipment (EEE) with a view to contributing to the protection of human health and the environment, including the environmentally sound recovery and disposal of waste EEE.
CE compliance	Yes

Note 1: Storage and operation above 20°C may reduce battery life. Minimum distance measured is derated with temperatures <0°C.

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 < +/-15° from the central axis of the transducer.

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

Note 5: Based on one data drop per day in standard configuration at a location with adequate CAT-M1/NB-IoT coverage.