

GREMLIN® HEATING OIL MONITOR SPECIFICATION (WI-FI)

| Characteristic | Transmitter |
|---------------------------------|----------------------------------------------------------------------------------------------|
| Dimensions | 109mm(W) x 109mm(L) x 108mm(H) ±1mm 4.3"(W) x 4.3"(L) x 4.25"(H) ±0.1" |
| Weight | 227g (8oz) including battery |
| Housing material | UV Stabilized Polypropylene (compatible with Oil) |
| Operating temperature | -17°C to +50°C (0°F to +122°F) Note 1 |
| Recommended storage temperature | +20°C to +25°C (+68°F to +77°F) clean, cool, dry and ventilated. Note 1 |
| Humidity range | 15% - 95% |
| Altitude range | <2Km (<6,000') above sea level |
| Environmental Protection | IP67 – Outdoors |
| Wi-Fi standard | Supports 802.11 b/g/n Wi-Fi |
| Frequency | 2.412GHz to 2.462GHz |
| Output power | 15dBm ±3dBm (as measured into the internal antenna on the PCB; internal antenna gain = -3dB) |
| Gauge Type | Ultrasonic |
| Ultrasonic Range | >12cm to <300cm (>5" to <115") Note 2 |
| Ultrasonic Signal Diversion | 30° (Note 3) |
| Ultrasonic Resolution | ±1cm (±0.5") |
| Accuracy | Typically ±2cm (±1") |
| Material compatibility | (Note 4) |
| Battery type | 3.6V Li-SOCl ₂ Size R14 (C) (such as Saft LSH14) |
| Expected battery life | 7.5 Years from activation (Note 5) |
| Enclosure colour | Olive green - Pantone 376C (adapter – Black) |

Accessories

| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Tank mounting options | Fits directly into female 1 ¼", 1 ½" or 2" BSP threads. 2" recommended. |
| Gasket (included) | Material EPDM 89mm(Ø) x 4mm(H) ±1mm (3.5"Ø x 0.16"(H) ±0.1" Distance between hole centres 50mm ±1mm (2" ±0.1") |
| Antenna (optional) | Available with an external Wi-Fi antenna SMA connector. Contact Tekelek for details (Note 6) |

Conformity

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| Complies with current Directives for Electromagnetic compatibility and the Low voltage directive for product safety and the current R&TTE directive for radio. Compliance was demonstrated to the following specifications as listed in the official journal of the European Communities. | |
| EN 55022,A1,A2 | Limits and methods of measurement of radio disturbance characteristics of information technology equipment. |
| EN 61000-4-2/3 | Electromagnetic compatibility |
| EN 301 489-1 | ERM and EMC standard for radio equipment and services Part1 |
| EN 301 489-7 | Electro-magnetic Compatibility and Radio Spectrum Matters (ERM); Electro-magnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 7: Specific Conditions for Mobile and Portable Radio and Ancillary Equipment of Digital Cellular Radio Telecommunications Systems (GSM and DCS) |
| ETSI EN 301 489-17 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) |
| FCC compliance | FCC ID: S6T750 |
| RoHs Compliance | Yes |

Note 1: Storage and operation above 25°C may reduce battery life. Shelf life recommended not to exceed 12 months

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, gas oil types A2,C1,C2 and D as defined by BS2869.

Note 5: Based on activation within 1 year of the manufacturing date of the product, and device configuration for 4 ultrasonic measurements per day, 1 Wi-Fi connection per day from a location where the Wi-Fi coverage does not require retries, and a normal distribution over the operating temperature range centered at +25°C (77°F).

Note 6: If used in an external environment, installer must apply self-amalgamating tape to the external antenna-SMA connector join to ensure it is weather proofed. The antenna gain characteristics should be < 6dBi to ensure FCC compliance.