

Temperature Monitor 1.0

Datasheet



The Wireless Digital Thermometer provides reliable, economic, and accurate temperature monitoring for tanker and tank container operators

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|-----------------|-------------|
| Doc. Nr.: | 20200526001 |
| Version: | 1.4 |
| Status: | APPROVED |
| Classification: | PUBLIC |
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1. Technical Data

| | | |
|---|--|--|
| Product | Temperature Monitor 1.0 Wireless Digital Thermometer | |
| ID | DCT 150M-W | |
| Physical | Size | Ø 150 mm x 40 mm / Ø 5.9" x 1.57". Cut-out 102 mm / 4.72" |
| | Weight | 500 g |
| | Mounting hole spacing | 6, Ø 5 mm, on Ø 135 mm every 60° |
| Display | Temperature | 4 Digits, 7 Segment (°C or °F user selectable) |
| | Resolution | 1 °C (0.1°C in the UI) |
| | Pairing | " SERVICE "-Symbol: device is in hibernation mode |
| | Operational | " ♥ "-Symbol: Device is operational |
| | | " mm "-Symbol: ON, device disconnected from GH |
| " mm "-Symbol: OFF, device connected with GH | | |
| " AVG "-Symbol: Average of 4 measurements per minute | | |
| " PSI "-Symbol: NFC Chip present and valid | | |
| Temp. Measurement | Sensor | PT1000 |
| | Sensor Dimensions | Length 75 mm / 2.95"; Ø 6 mm / Ø 0.23" (including anti kink element) |
| | Lead Length | 1 meter (39.3"), not removable (customized lengths up to 15m available upon request) |
| | Range | -50 °C to +150 °C / -58 °F to 302 °F |



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| | Sampling Time | Variable – 60 seconds by default |
| | Accuracy | 0°C to +100°C (32°F to +212°F) typically 0.9°C (32 °F) +/- one digit 150 °C (302 °F) typically 2.0 °C (35,6 °F) +/- one digit -50 °C (-58 °F) typically 1.0 °C (33,8°F) +/- one digit |
| Environmental | Operating temperature (EN 50155, Class TX) | |
| | ATEX ambient temperature (EN 60079-0) | -35 °C to +60 °C / -31 °F to +140 °F |
| | Sensor | -50 °C to +150 °C / -58 °F to +302 °F |
| | Altitude | 2000 m / 6562 feet |
| | Ingress Protection | IP67 |
| Energy | Battery type | Lithium Thionyl Chloride |
| | Nominal battery voltage | 3.6 V |
| | Battery capacity | 4.8 Ah |
| | Battery certification | UN38.3 |
| IEEE 802.15.4 | Frequency range | 2400 MHz ... 2480 MHz |
| NFC | Frequency | 13.56 MHz (passive) |
| Lifetime | Maintenance free | 6 years, based on a 60 second sampling interval |



| | | |
|------------------|-----------------------------|---|
| Enclosure | Main Enclosure with Display | Glass fibre reinforced nylon with fully integrated sealed polycarbonate front |
| | Sensor | Enclosed in Ø 5 mm x 75 mm (Ø 0.19" x 2.95") stainless steel sheath |

Environment:

RoHS

WEEE

DIN EN 60529:2014 (IP67)

ATEX / IECEx:

ATEX Certification Number: SGS20ATEX0001X

2014/34/EU

EN/IEC 60079-0, edition 7.0

EN/IEC 60079-11, edition 6.0

Ex II 2 GD

Ex ib IIC T4...T3 Gb

Ex ib IIIC T135°C...T184°C Db

Product Safety:

IEC 62368-1:2014

EMC:

EN 61326-1:2013

Battery:

UN38.3



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