

Thermo Scientific Smart-View Wireless Monitoring Solution

Technical Data Sheet: Temperature Humidity Module with IP 66 and 2 meter cable



Application

Module and sensor used for monitoring temperature relative humidity (RH) with IP66 and 2 meter cable

General

- Measured temperature range: from -40°C to +100°C and 0% to 100% Relative Humidity.
- Size: 132.74 x 64.15 x 34 mm (5.2 x 2.5 x 1.3 in)
- Weight: 150 g (5.3 oz)
- Module Holder Mounting Options: Velcro*, magnetic, or fixed
- Battery Life / Power: Battery life dependent on customer use and size of installation; recommend changing every year with standard default software settings (battery type: 3.6V Lithium)
- Warranty: 1 year on all hardware (see warranty terms & conditions for details on coverage)

Wireless Technology

- Industrial Scientific Medical (ISM) band frequencies: 4 different bands available for worldwide use based on location
- Wireless Range: up to 700 meters (2,300 ft.) in open space, from 25 meters (82 ft.) to 100 meters (330 ft.) indoors, and up to 400 meters (1,312 ft.) indoors with 3 repeaters
- Wireless Power Output: 25mW (check with your sales representative for international product availability and radio signal strength)
- Data Verification: Use of error-correcting code and CRC (checksum) ensures data integrity

Sensor Information

- Measured temperature/humidity range: From -40°C to +100°C (-40°F to +212°F) and 0 to 100% RH non condensing.
- Sensor type: Digital sensor with 4 leads
- Sensor dimensions: 67 mm x 12 mm plastic casing with PTFE filter
- Cable length: 2 meter; module cable length (1 meter)+sensor cable (0.8 meter)+ Flat cable (0.2 meter).
- Connector: connector with 4 gold-plated pins between sensor and module
- Temperature measurement uncertainty: +/- 0.3°C without calibration and +/- 0.15°C after calibration (+10°C to +40°C)
- Humidity measurement uncertainty: +/- 2% RH after calibration (10% to 90% RH)
- Resolution: 0.0625°C and 0.1% RH
- Calibration certificate: 23°C and 50% RH.
- Protection index: IP66.

Memory

- 3,000 data measurement points
- Sampling rates: minimum every 1 minute to maximum every 24 hours

Alarm

- Smart-View Siren • Phone call • SMS Text • Email • Fax • Print
- Programming: Programmable high and low alarm limits with delay option; visual pre-alarm; visual and local audible settings for alarm limits
- Sensor Failure Protection: Spontaneous alarm emission for technical failures (sensor or receiver based); low battery alarm

Software

- Software Design: Cognitive ergonomic design to optimize user's work, reduce risk of error and provide additional system security
- Server/Client Relationship: Single server installation with unlimited client installation license agreement
- Scalability: Single software package manages all system sizes
- Report files require Microsoft* Word* and/or Excel* to handle data files exported in these formats

Standards and Regulations

- 915 MHz systems compliant with FCC Part 15 for non-interference with existing Wi-Fi network and other wireless devices

Environmental Conditions

- Temperature range for exposure of the module (functioning of the electronics of the module): 0°C to 50°C (32° to 122°F). 0 to 90% RH non-condensing.

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