

Thermo Scientific Smart-View Wireless Monitoring Solution

Technical Data Sheet: PT100 External Sensors or Ovens and High-Temperature Incubators



Application

Module and sensor used for monitoring high temperature incubators (>100°C) and ovens up to +350°C.

General

- Measured temperature range: Incubators from 100°C ; Ovens up to 350°C.
- Wireless module cable length: 1.5 meter
- 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 monitoring size; 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)

Sensor Information

- Sensor type: 3-wire PT100 sensor, class B, glass silk cable with stainless steel braiding.
- Dimensions of the sensor: 150 mm x 3 mm stainless steel. Sensor cable length, 2 meters.
- Connector with 3 gold-plated pins between sensor and module.
- Measurement uncertainty: +/- 0.5°C after calibration.
- Resolution: 0.07°C
- Calibration Certificate: 3 point sensor calibration performed with reference standard at; +100°C, +200°C and +347°C
- Other calibration points available upon request
- Protection index: IP67

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.

© 2012 Thermo Fisher Scientific Inc. All rights reserved. Velcro is a registered trademark of Velcro Industries B.V. Microsoft is a registered trademark of Microsoft Corporation in the United States and other countries. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

REV: 10/8/2012

Thermo
SCIENTIFIC