

HAMPSHIRE



CONTROLS

*"Safeguarding
Your Precious
Biological
Materials"*



T° Sentry Model TT-150 & TT-200 Temperature Transmitter/Alarms

PRODUCT DESCRIPTION:

The T° Sentry TT-150 and TT-200 are battery operated NIST-traceable, single probe temperature and humidity wireless Wi-Fi transmitters, covering -200 °C to +100 °C and 0% to 95% relative humidity, in various selectable ranges, housed in a free-standing or wall-mounted enclosure. The system includes high and low temperature alarms with audible and visual alarm indicators.

Features including temporary muting of the audible alarm for user-selectable periods up to 120 minutes; optional UL listed plug-in power supply; and optional dry contact input for refrigerator or freezer door monitoring, make the T° Sentry TT-150 and TT-200 ideal for applications such as the remote monitoring of freezers, refrigerators, and walk-in environmental chambers.

The T° Sentry TT-150 and TT-200 temperature and humidity transmitters are designed for wireless Wi-Fi communication to Hampshire Controls' T° Sentry ALERT Monitoring System data logging software SQL database. Wi-Fi transmission is via a standard UDP/IP protocol every 3 minutes, so the data is also available to other logging systems upon request. Consult Hampshire Controls for available options and configurations.

**Custom programming
and packaging can be
provided to satisfy any
temperature and humidity
monitoring application.**



FEATURES:

- Continuous Wi-Fi transmission to ALERT Monitoring System data logging software
- Portable, easily positioned modules
- Battery operated (three 1.5V Lithium AA batteries, ~1-yr. battery life)
- -200 °C to +100 °C with variable ranges and probe types
- Simultaneous temperature/humidity sensors available
- Easy-to-read LCD display, 0.1 or 1 °C or °F, 0.1% or 1% RH
- Adjustable high/low alert condition settings and alarm delay period
- Audible and visual alarms
- Selectable audible alarm mute periods
- Dry contact input for refrigerator or freezer door monitoring
- Passcode protected setpoints

AVAILABLE OPTIONS:

- TT-150: -100 °C to +100 °C
- TT-200: -200 °C to +50 °C
- TT-150-RHT: -40 °C to +125 °C typ, 0% to 95% relative humidity (%RH) typ, for room monitoring only (no probe)
- °C or °F temperature transmission and display
- 3-minute sampling rate. Other rates available by request (more frequent sampling reduces battery life)
- Optional SPDT relay contact output with adjustable relay delay period

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T° Sentry Model TT-150 & TT-200 Temperature Transmitter/Alarms

	TT-150	TT-150 Humidity	Model TT-200
Range (°C)	-100 to 100 °C	-40 to 125 °C typ	-200 to 50 °C
Range (°F)	-148 to 212 °F	-40 to 257 °F typ	-328 to 122 °F
Range (%RH)	NA	0 – 90% RH typ	NA
Sensor & Lead	100-ohm RTD in 4" (102mm) s.s. sheath, 10' (3m), Teflon® jacketed, waterproof	Sensor mounted in housing. For room monitoring only (no probe)	CryoRTD, custom s.s. sheath length (2", 51 mm to 24", 610mm), 10' (3m) lead typ
Accuracy (°C)	±0.2 °C	±0.2 °C	±0.2 °C
Accuracy (°F)	±0.4 °F	±0.4 °F	±0.4 °F
Accuracy (%RH)	NA	±1.8% RH typ	NA
Display Resolution (°C)	0.1 °C (1 °C optional)	0.1 °C (1 °C optional)	0.1 °C (1 °C optional)
Display Resolution (°F)	0.1 °F (<200 °F) 1 °F (≥200 °F) 1 °F (optional, full range)	0.1 °F (<200 °F) 1 °F (≥200 °F) 1 °F (optional, full range)	0.1 °F (<200 °F) 1 °F (≥200 °F) 1 °F (optional, full range)
Display Resolution (%RH)	NA	0.1% RH (1% RH optional)	NA

SPDT Dry Contact Inputs

Relay, Dry Contacts	Single Form C (SPDT) inputs for refrigerator or freezer door status
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Alarm	Frequency	Amplitude	Notes
Audio, Standard	3.5 ± 0.5 kHz	90 dB @ 30 cm	Selectable audio mute period
Visual	~1 Hz flashing red LED		

SPDT Relay Output (Optional)

Relay, Dry Contacts	Single Form C (SPDT) for remote alarm activation; user-adjustable relay delay period
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Data Transmission

Wi-Fi	UDP/IP transmission every 3 minutes to T° Sentry ALERT Monitoring System or other data logging systems. Higher frequency transmission upon request, but with reduced battery life. IEEE Standard 802.11b/g.
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Power

Battery (standard, included)	3 ea. 1.5V AA Lithium batteries. Approximately 1 yr. life with data transmission every 3 minutes. Battery life reduced with increased data transmission frequency (optional).
Line Power (optional)	100-240 VAC, 190 mA max, switching, wall adapter, 3.3 VDC output 1.5 A max

Mechanical & Environmental

Mounting	Standard: Adhesive VELCRO® mounting strips (included) Optional: Interlocking wall mounting bracket (order with P/N 68034)
Dimensions, WxHxD	4 x 4 x 1.6 in. (102 x 102 x 41 mm)
Weight	0.8 lb. (364 g)
Case	Black ABS Plastic
Operating Temperature Range	-18 to 55 °C (0 to 130 °F)

One-year warranty on all Hampshire Controls products.

About Us: Established in 1975, Hampshire Controls provides standard and custom-designed electronics to the biomedical and industrial markets. In addition to the wide variety of **T° Sentry Model TT-150 & TT-200 Temperature Transmitter/Alarms**, our product portfolio includes:

- **MPS Multi-Probe Monitor/Alarms**
- **T° Sentry Model 140** single probe temperature monitor/alarms
- **LD-215 Liquid Nitrogen Level Detector/Alarms**
- **Air Flow Monitors** (50 to 2500 FPM)
- **STEDIVOLT SV2005 Line Voltage Controls**
- Customized OEM electronics design and manufacturing
- **T° Sentry ALERT Monitoring System** data logging
- **CO₂, LN₂ CA5000 Freezer Backup Systems**
- **TC-25 & TC-25+ TEMP CHECK Rapid Response Thermometers**
- **ADM-215 Remote Alarm Delay Modules**
- Customized monitoring, alarm notification, and logging

