

RF140

Wireless High Temperature Data Logger

The RF140 is a wireless, real-time temperature data logger that combines the trusted performance and accuracy of the HiTemp140 Series with the convenience of remote monitoring. Designed for use in high-temperature environments, the RF140 records precise, time-stamped temperature data and transmits it instantly to the MadgeTech 4 Data Logger Software or the MadgeTech app, allowing users to monitor conditions in real time from a computer or compatible mobile device.

Engineered for durability, reliability, and ease of use, the RF140 is built to withstand demanding applications while providing continuous visibility into critical processes. Its wireless communication capabilities eliminate the need for manual data collection, helping users respond quickly to changing conditions and reduce downtime. Customizable high and low alarms provide immediate notification when temperatures fall outside of acceptable limits, enabling proactive decision-making and helping protect valuable products and processes.

With reliable real-time monitoring, accurate data collection, and seamless integration with both the MadgeTech 4 Software and the MadgeTech app, the RF140 is an ideal solution for applications requiring both high-temperature resistance and continuous oversight. It is well suited for industries such as pharmaceuticals, healthcare, food processing, and other regulated environments where accuracy, process validation, and compliance are essential.



FEATURES

- Bluetooth Connectivity
- Monitor up to 140 °C
- Submersible (IP68)
- User Replaceable Battery

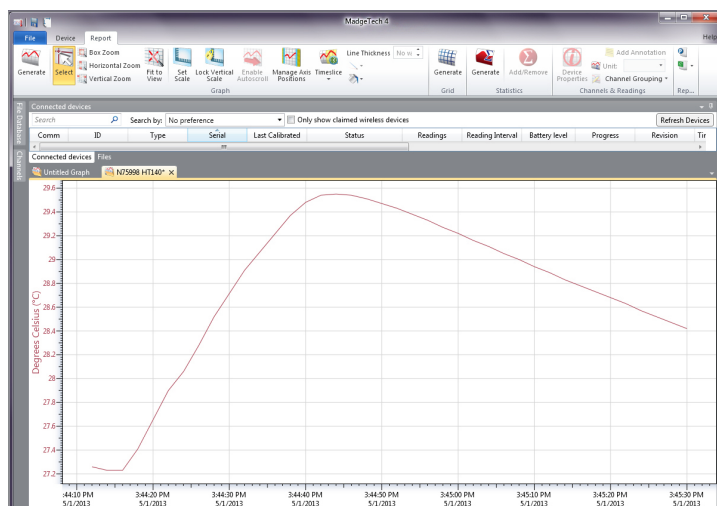
BENEFITS

- Simple Set Up
- Minimal Maintenance

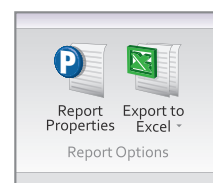
APPLICATIONS

- Autoclave Validation
- Food Preparation & Processing
- Environmental Studies
- Well Monitoring
- Dishwater Testing
- Pasteurization

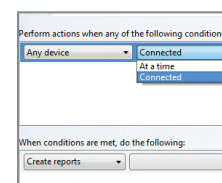
MadgeTech 4 Software Features



- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Summary view



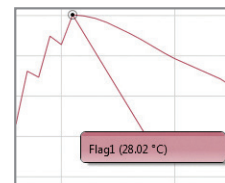
Export to Excel



Automation

Time	Time Zone	Delta
11:37 PM	-0400	-00:00:00
11:43 PM	-0400	+00:01:00
11:53 PM	-0400	+00:02:00
11:57 PM	-0400	+00:03:00
11:57 PM	-0400	+00:04:00
11:57 PM	-0400	+00:05:00
11:57 PM	-0400	+00:06:00
12:03 PM	-0400	+00:07:00
12:17 PM	-0400	+00:08:00
12:23 PM	-0400	+00:09:00
12:37 PM	-0400	+00:10:00
12:43 PM	-0400	+00:11:00
12:53 PM	-0400	+00:12:00
12:57 PM	-0400	+00:13:00
12:57 PM	-0400	+00:14:00
12:57 PM	-0400	+00:15:00

Tabular Data View



Cooling Flags

Specifications

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call **(603) 456-2011** or go to **madgetech.com** for details.

GENERAL	
Start Modes	Software programmable immediate start Delay start up to 18 months in advance
Stop Modes	Manual or Timed (specific date and time)
Real Time Recording	May be used with PC or mobile device to monitor and record data in real time
Password Protection	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.
Memory	65,586
Trigger Settings	High and Low limits may be set. Once data meets or exceeds sets limits, the device will record to memory. Bi-level start and stop triggers can also be programmed. Users can specify the number of readings to take after the device triggers.
Readings in Trigger Settings Mode	13,107
Wrap Around	Yes
Reading Rate	1 reading every second up to 1 reading every 24 hours
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	3.6V high-temperature user replaceable power cell
Battery Life	1 year typical (1 minute reading rate)
Data Format	Date and time stamped °C, K, °F or °R
Time Accuracy	± 4.1 minute/month at 25 °C
Computer Interface	BLE 2.4 GHz IEEE Std. 802.11
Transmission Distance	100 m max. outdoors - line of sight unobstructed 30 m max. indoors - typical urban environment
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version TBD Secure Software version TBD MadgeTech App
Operating Environment	-40 °C to +140 °C (-40 °F to +284 °F) 0 %RH to 100 %RH, 0.002 PSIA to 100 PSIA

IP Rating	IP68
Dimensions (Body)	RF140-1: 3.29 in x 0.970 in dia. (83.57 mm x 24.6 mm dia.) RF140-2, 5.25, 7: 3.57 in x 0.970 in dia. (90.68 mm x 24.6 mm dia.)
Dimensions (Probe)	RF140-1: 1.1 in x 0.125 in dia. (27 mm x 3.2 mm dia.) RF140-2: 2.0 in x 0.188 in dia. (51 mm x 4.8 mm) RF140-5.25: 5.25 in x 0.188 in dia. (133 mm x 4.8 mm dia.) RF140-7: 7.0 in x 0.188 in dia. (178 mm x 4.8 mm dia.)
Weight	4.2 oz (120 g)
Material	316 Stainless Steel, PPSU
Approvals	CE, FCC

TEMPERATURE	
Temperature Sensor	100 Ω Platinum RTD
Operating Range	-40 °C to +140 °C (-40 °F to +284 °F)
Temperature Resolution	0.01 °C (0.02 °F)
Calibrated Accuracy	±0.1 °C/±0.18 °F (20 °C to +140 °C/68 °F to +284 °F) ±0.3 °C/±0.54 °F (0 °C to +19.99 °C/-4 °F to +67.98 °F) ±0.4 °C/±0.72 °F (-40 °C to -20.01 °C/-40 °F to +4.02 °F)

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, CRUSH, PENETRATE, OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 150 °C (302 °F).

Ordering Information

RF140-1	PN 902690-00	Wireless High Temperature Data Logger with 1" Probe
RF140-2	PN 902691-00	Wireless High Temperature Data Logger with 2" Probe
RF140-5.25	PN 902692-00	Wireless High Temperature Data Logger with 5.25" Probe
RF140-7	PN 902693-00	Wireless High Temperature Data Logger with 7" Probe



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