



## SPECIFICATIONS

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

TEMPERATURE	
Temperature Sensor	Various RTD Probes with M12 Connector (Sold Separately)
Measurement Range	18 Ω to 400 Ω, (-200 °C to +850 °C / -328 °F to +1562 °F) (Probe Dependent) <b>BODY OF LOGGER CANNOT EXCEED 140 °C</b>
Temperature Resolution	0.0001 Ω, (0.01 °C / 0.018 °F) (Probe Dependent)
Calibrated Accuracy	±0.0462 Ω (18 Ω to 200 Ω) ±0.1 °C (-200 °C to +265 °C / -328 °F to +509 °F) ±0.1% of Reading (+265 °C to 850 °C / +509 °F to 1562 °F) (Probe Dependent)
Connector Type	M12 Female, 4 Pin

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 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	21,504 readings
Wrap Around	Yes
Reading Rate	4 readings per second up to 1 reading every 24 hours
Trigger Settings	High and Low limits may be set. Once data meets or exceed 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	5,864 readings
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	3.6V high-temperature lithium battery included; user replaceable
Battery Life	1 year typical (1 minute reading rate at 25 °C/77 °F)
Data Format	Date and time stamped °C, K, °F or °R
Time Accuracy	±1 minute/month at 25 °C (77 °F)
Computer Interface	IFC400 or IFC406 USB docking station required; 125,000 baud
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	MadgeTech Standard Software version 4.2.5.0 or later MadgeTech Secure Software version 4.2.4.0 or later
Operating Environment	-40 °C to +140 °C (-40 °F to +284 °F) 0 %RH to 100 %RH non-condensing, 0.002 PSIA to 60 PSIA
IP Rating	IP40 - logger alone (with no probe connected) The logger will inherit IP rating of the attached probe (up to, and including IP68/IP69K).
Dimensions (Body)	2.15 in x 0.97 in x 0.97 in (54.5 mm x 24.6 mm x 24.6 mm)
Dimensions (Probe)	Probe Dependent
Weight	3 oz (85 g)
Material	316 Stainless Steel, Radel
Approvals	CE

**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

HITEMP140-M12	PN 900227-00	High Temperature Data Logger with built-in M12 probe connector
IFC400	PN 900319-00	Docking station with USB cable
IFC406	PN 900325-00	6 Port, Multiplexer docking station with USB cable
ER14250-SM Formerly ER14250MR-145	PN 900097-00	Replacement battery for the HiTemp140-M12