

SPECIFICATIONS

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

TEMPERATURE	
Temperature Sensor	100 Ω Platinum RTD
Probe Measurement Range	-200 °C to +260 °C (-328 °F to +500 °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)

GENERAL		
Start Modes	Software programmable immediate start Delay start up to 18 months in advance	
Stop Modes	Manual or Timed (specific date and time)	
Data Logger Response Time	In Air	In Water
	(hours : minutes : seconds : fractions of a second)	
	t ₆₀ - 00:00:39:00 t ₉₀ - 00:02:43:00	t ₆₀ - 00:00:10:00 t ₉₀ - 00:00:12:00
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	6,451 readings	
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	32,256 readings	
Wrap Around	Yes	

Reading Rate	4 readings per 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 lithium battery included; user replaceable
Battery Life	2 years typical (1 minute reading rate)
Data Format	Date and time stamped °C, K, °F or °R
Time Accuracy	± 1 minute/month at 20 °C to 30 °C (68 °F to 86 °F) (Stand alone mode)
Computer Interface	IFC400 OR IFC406 USB docking station required; 125,000 baud
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version 4.2.3.0 or later Secure Software version 4.2.2.0 or later
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)	1.89 in x 0.970 in x 0.970 in (48 mm x 24.6 mm x 24.6 mm)
Dimensions (Probe)	1.75 in x 0.0625 in dia. (0.188 in transitional dia.) 44.5 mm x 1.59 mm (4.78 mm Transitional dia.)
Weight	2.3 oz (65 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-FR	PN 900221-00	High Temperature Data Logger with a 2 inch fast response probe
IFC400	PN 900319-00	Docking station with USB cable
IFC406	PN 900325-00	6 Port, Multiplexer docking station with USB cable
ER14250MR-145	PN 900097-00	Replacement battery for the HiTemp140-FR