

SPECIFICATIONS

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

TEMPERATURE	
Temperature Sensor	Flexible RTD Probe
Probe Measurement Range	-60 °C to +260 °C (-76 °F to 500 °F)
Temperature Resolution	0.01 °C (0.02 °F)
Calibrated Accuracy	±0.1 °C (0.18 °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 - 00:00:30:00 t ₆₀ - 00:00:03:50 t ₉₀ - 00:01:10:00 t ₉₀ - 00:00:06:50
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	21,845 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	65,536 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	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 Extended Operation: ±20 minutes/month at 140 °C (±450 ppm)
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 4.2.1.1 or later MadgeTech Secure Software version 4.2.0.1 or later
Operating Environment	-40 °C to +140 °C (-40 °F to +284 °F) 0 %RH to 100 %RH, 0.002 PSIA to 60 PSIA
IP Rating	IP68
Dimensions (Body)	2.95 in x 0.97 in x 0.97 in (75 mm x 24.6 mm x 24.6 mm)
Dimensions (Probe)	HiTemp140-FP-6: 6 in x 0.10 in (152.5 mm x 2.5 mm) HiTemp140-FP-12: 12 in x 0.10 in (304.8 mm x 2.5 mm) HiTemp140-FP-36: 36 in x 0.10 in (914 mm x 2.5 mm) HiTemp140-FP-72: 72 in x 0.10 in (1829 mm x 2.5 mm)
Weight	3 oz (85 g)
Material	Body: 316 Stainless Steel Probe: PFA Insulated Cable
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).

Notice: Steam Sterilization Applications

The pervasive nature of pressurized steam creates a very difficult environment for electronics. Please refer to the following preventative maintenance procedure when using this device in steam sterilization applications. Additionally, this device is not ideal for steam sterilization applications above 121 °C/1.1 bar.

PREVENTATIVE MAINTENANCE

After every 3 hours of steam exposure:

1. Remove the endcap and battery from the device (ref. battery change procedure on Product User Guide)
2. Place open logger (minus battery) in an oven at 120 °C (250 °F) for a minimum of 30 minutes
3. Remove logger from oven and allow to cool to room temperature
4. Re-assemble the logger with the battery (note polarity) and endcap

Ordering Information

HITEMP140-FP-6	PN 902003-00	High Temperature Data Logger with a 6 inch flexible probe
HITEMP140-FP-12	PN 900211-00	High Temperature Data Logger with a 12 inch flexible probe
HITEMP140-FP-36	PN 900212-00	High Temperature Data Logger with a 36 inch flexible probe
HITEMP140-FP-72	PN 900218-00	High Temperature Data Logger with a 72 inch flexible 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-FP

For Quantity Discounts call (603) 456-2011 or email sales@madgetech.com