



# HITEMP140X2-FP SPECIFICATIONS\*

\*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

## Temperature

Temperature Sensor:	<ul style="list-style-type: none"> <li>HiTemp140X2-FP: Flexible RTD Probe</li> <li>HiTemp140X2-FP-PT: Flexible RTD Probe &amp; Bendable RTD Probe</li> </ul>
Probe Measurement Range:	<ul style="list-style-type: none"> <li>Flexible Probe: -60 °C to +260 °C (-76 °F to +500 °F)</li> <li>Bendable Probe: -200 °C to +350 °C (-328 °F to +662 °F)</li> <li><b>*BODY OF LOGGER CANNOT EXCEED 140 °C</b></li> </ul>
Temperature Resolution:	0.01 °C (0.02 °F)

## General

Reading Rate:	1 reading every second up to 1 reading every 24 hours
Memory:	32,767 readings
Start Modes:	<ul style="list-style-type: none"> <li>Software programmable immediate start</li> <li>Delay start up to 18 months in advance</li> </ul>
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.
Readings in Trigger Settings Mode:	16,383 readings
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. (Triggering on channel #1 only)
Wrap Around:	Yes
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)

**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).**

Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Data Format:	Date and time stamped °C, °F, °R, K,
Time Accuracy:	<ul style="list-style-type: none"> <li>1 minute/month at 25 °C (77 °F)</li> <li>Extended Operation: ±20 minutes/month at 140 °C (±450 ppm)</li> </ul>
Computer Interface:	IFC400 or IFC406 USB docking station required; 125,000 baud
Operating System Compatibility:	XP SP3/Vista/Windows 7/Windows 8
MadgeTech Software Compatibility:	<ul style="list-style-type: none"> <li>MadgeTech Standard Software version 4.2.1.0 or later</li> <li>MadgeTech Secure Software version 4.2.0.0 or later</li> </ul>
Operating Environment:	-40 °C to +140 °C (-40 °F to +284 °F) 0 %RH to 100 %RH, 0.002 PSIA to 60 PSIA <b>*BODY OF LOGGER CANNOT EXCEED 140 °C</b>
IP Rating:	IP68
Dimensions (body):	1.89 in x 0.97 in x 0.97 in (48 mm x 24.6 mm x 24.6 mm)
Dimensions (probe):	<ul style="list-style-type: none"> <li>HiTemp140X2-FP:                             <ul style="list-style-type: none"> <li>Flexible Probe: 6 in x 0.10 in (152 mm x 2.5 mm)</li> <li>Flexible Probe: 12 in x 0.10 in (305 mm x 2.5 mm)</li> <li>Flexible Probe: 36 in x 0.10 in (914.4 mm x 2.5 mm)</li> <li>Flexible Probe: 72 in x 0.10 in (1829 mm x 2.5 mm)</li> </ul> </li> <li>HiTemp140X2-FP-PT 1 Inch Bendable Probe:                             <ul style="list-style-type: none"> <li>Probe tip: 1.7 in x 0.125 in dia. (42 mm x 3.2 mm dia.)</li> <li>Bendable portion: 22 in x 0.062 in dia. (559 mm x 1.6 mm dia.)</li> </ul> </li> <li>HiTemp140X2-FP-PT 5 Inch Bendable Probe:                             <ul style="list-style-type: none"> <li>Probe tip: 4.8 in x 0.125 in dia. with 1 in x 0.188 in dia. handle (121 mm x 3.2 mm dia. with 25 mm x 4.8 mm dia. handle)</li> <li>Bendable portion: 22 in x 0.062 in dia. (559 mm x 1.6 mm dia.)</li> </ul> </li> </ul>
Weight:	<ul style="list-style-type: none"> <li>HiTemp140X2-FP: 4.1 oz (115 g)</li> <li>HiTemp140X2-FP-PT: 3.9 oz (110 g)</li> </ul>
Materials:	<ul style="list-style-type: none"> <li>Body: 316 Stainless Steel, PEEK</li> <li>Bendable Probe: 316 Stainless Steel</li> <li>Flexible Probe: PFA Insulated Cable</li> </ul>
Approvals:	CE

## ORDERING INFORMATION

MODEL	DESCRIPTION
HiTemp140X2-FP	High temperature dual probe data logger with four different flexible probe length options. (6 inch, 12 inch, 36 inch and 72 inch).
HiTemp140X2-FP-PT-1	High temperature dual probe data logger with one 24 inch bendable stainless steel probe with a 1 inch probe sheath and one flexible probe.
HiTemp140X2-FP-PT-5	High temperature dual probe data logger with one 24 inch bendable stainless steel probe with a 5 inch probe sheath and one flexible probe.
IFC400	Docking station with USB cable, software and manual.
IFC406	6 Port, Multiplexer docking station with USB cable, software and manual.
ER1425S-HT	Replacement battery for the HiTemp140X2-FP Series
Calibration Certificate	Calibration Certificate available for data logger

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