DATASHEET

# HPT System-1.6

MadgeTech

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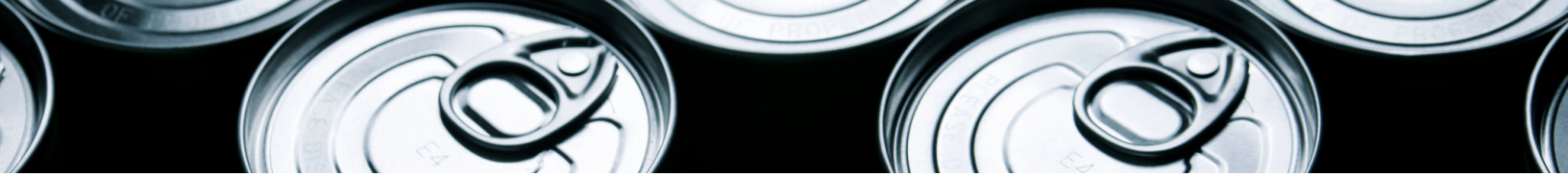
# HITEMP140-CF

## High Temperature Data Logger

The HiTemp140-CF securely attaches via MadgeTech Canning Fitting to jars, cans or other containers, allowing the probe to measure the heat penetration and temperature distribution of pasteurized and retorted foods.

The HiTemp140-CF can withstand temperatures up to 140 °C (284 °F), making it ideal for use in a variety of canning applications, in a wide range of industries and environments.

## For Use With:



# Specifications

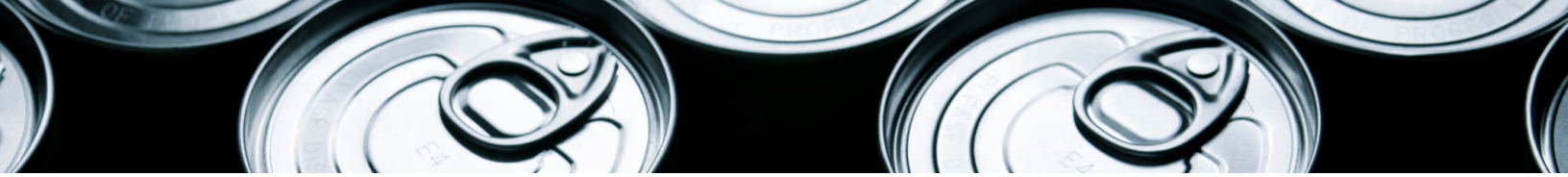
Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to **madgetech.com** for details.

| TEMPERATURE | |
|---|---|
| **Temperature Sensor** | 100 Ω Platinum RTD |
| **Probe Measurement Range** | -200 °C to +260 °C (-328 °F to +500 °F)<br>**BODY OF LOGGER CANNOT EXCEED 140 °C** |
| **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)<br>±0.3 °C/±0.54 °F (-20 °C to +19.99 °C/-4 °F to +67.98 °F)<br>±0.4 °C/±0.72 °F (-40 °C to –20.01 °C/-40 °F to -4.02 °F) |

| GENERAL | |
|---|---|
| **Start Modes** | Software programmable immediate start<br>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** | 32,256 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. |
| **Reading in Trigger Settings Mode** | 6,451 readings |
| **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 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<br>(68 °F to 86 °F) (Stand alone mode) |
| **Computer Interface** | IFC400 OR IFC406 USB docking station required; 125,000 baud |

**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).

| | |
|---|---|
| **Operating System Compatibility** | Windows XP SP3 or later |
| **Software Compatibility** | Standard Software version 2.03.06 or later<br>Secure Software version 4.1.3.0 or later |
| **Operating Environment** | -40 °C to +140 °C (-40 °F to +284 °F)<br>0 %RH to 100 %RH, 0.002 PSIA to 100 PSIA |
| **IP Rating** | IP68 |
| **Dimensions (Body)** | 1.55 in x 0.97 in (39.3 mm x 24.6 mm) |
| **Dimensions (Probe)** | **HiTemp140-CF-1.1:**<br>1.1 in x 0.095 in (27.94 mm x 2.4mm)<br>**HiTemp140-CF-1.2:**<br>1.2 in x 0.095 in (30.48 mm x 2.4mm)<br>**HiTemp140-CF-1.3:**<br>1.3 in x 0.095 in (33.02 mm x 2.4mm)<br>**HiTemp140-CF-1.4:**<br>1.4 in x 0.095 in (35.56 mm x 2.4mm)<br>**HiTemp140-CF-1.5:**<br>1.5 in x 0.095 in (38.1 mm x 2.4mm)<br>**HiTemp140-CF-1.6:**<br>1.6 in x 0.095 in (40.64 mm x 2.4mm)<br>**HiTemp140-CF-1.8:**<br>1.8 in x 0.095 in (45.72 mm x 2.4mm)<br>**HiTemp140-CF-2.1:**<br>2.1 in x 0.095 in (53.34 mm x 2.4mm)<br>**HiTemp140-CF-2.2:**<br>2.2 in x 0.095 in (55.88 mm x 2.4mm)<br>**HiTemp140-CF-3.1:**<br>3.1 in x 0.095 in (78.74 mm x 2.4mm)<br>**HiTemp140-CF-3.9:**<br>3.9 in x 0.095 in (99.06 mm x 2.4mm)<br>**HiTemp140-CF-5.4:**<br>5.4 in x 0.095 in (137.16 mm x 2.4mm) |
| **Weight** | 4.2 oz (120 g) |
| **Material** | 316 Stainless Steel, Radel |
| **Approvals** | CE |



# Ordering Information

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|---|---|---|
| **HiTemp140-CF-1.1** | 902425-00 | HiTemp140-CF with 1.1” probe |
| **HiTemp140-CF-1.2** | 902452-00 | HiTemp140-CF with 1.2” probe |
| **HiTemp140-CF-1.3** | 902453-00 | HiTemp140-CF with 1.3” probe |
| **HiTemp140-CF-1.4** | 902454-00 | HiTemp140-CF with 1.4” probe |
| **HiTemp140-CF-1.5** | 902443-00 | HiTemp140-CF with 1.5” probe |
| **HiTemp140-CF-1.6** | 902455-00 | HiTemp140-CF with 1.6” probe |
| **HiTemp140-CF-1.8** | 902444-00 | HiTemp140-CF with 1.8” probe |
| **HiTemp140-CF-2.1** | 902426-00 | HiTemp140-CF with 2.1” probe |
| **HiTemp140-CF-2.2** | 902456-00 | HiTemp140-CF with 2.2” probe |
| **HiTemp140-CF-3.1** | 902427-00 | HiTemp140-CF with 3.1” probe |
| **HiTemp140-CF-3.9** | 902428-00 | HiTemp140-CF with 3.9” probe |
| **HiTemp140-CF-5.4** | 902445-00 | HiTemp140-CF with 5.4” probe |
| **ThermaLock-1.1** | 902122-00 | 1.1” Thermowell for HiTemp140-CF |
| **ThermaLock-1.2** | 902102-00 | 1.2” Thermowell for HiTemp140-CF |
| **ThermaLock-1.3** | 902123-00 | 1.3” Thermowell for HiTemp140-CF |
| **ThermaLock-1.4** | 902103-00 | 1.4” Thermowell for HiTemp140-CF |
| **ThermaLock-1.5** | 902124-00 | 1.5” Thermowell for HiTemp140-CF |
| **ThermaLock-1.6** | 902104-00 | 1.6” Thermowell for HiTemp140-CF |
| **ThermaLock-1.8** | 902125-00 | 1.8” Thermowell for HiTemp140-CF |
| **ThermaLock-2.1** | 902435-00 | 2.1” Thermowell for HiTemp140-CF |
| **ThermaLock-2.2** | 902127-00 | 2.2” Thermowell for HiTemp140-CF |
| **ThermaLock-3.1** | 902128-00 | 3.1” Thermowell for HiTemp140-CF |
| **ThermaLock-3.9** | 902119-00 | 3.9” Thermowell for HiTemp140-CF |
| **ThermaLock-5.4** | 902446-00 | 5.4” Thermowell for HiTemp140-CF |
| **CF202** | 902430-00 | Canning Fitting for HiTemp140-CF |
| **IFC400** | 900319-00 | Docking station with USB cable |
| **IFC406** | 900325-00 | 6 Port, Multiplexer docking station with USB cable |
| **ER14250-01** | 900097-00 | Replacement battery for the HiTemp140-CF |

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

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