DATASHEET

ThermaLock-3.1

MadgeTech

Distributed by AKRIBIS

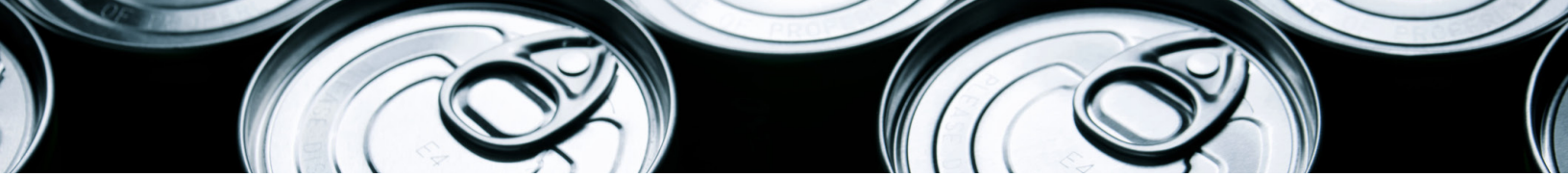
HITEMP140-CF

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

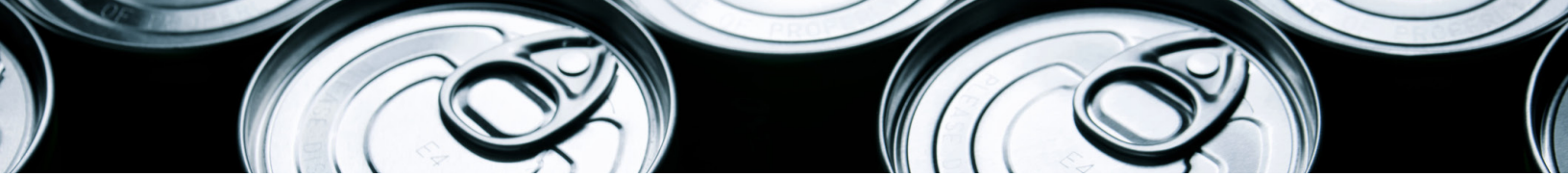
Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to **madgetech.com** for details.

TEMPERATURE	
Temperature Sensor	100 Ω Platinum RTD
Probe Measurement Range	-200 °C to +260 °C (-328 °F to +500 °F) **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) ±0.3 °C/±0.54 °F (-20 °C to +19.99 °C/-4 °F to +67.98 °F) ±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 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 (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 Secure Software version 4.1.3.0 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)	1.55 in x 0.97 in (39.3 mm x 24.6 mm)
Dimensions (Probe)	**HiTemp140-CF-1.1:** 1.1 in x 0.095 in (27.94 mm x 2.4mm) **HiTemp140-CF-1.2:** 1.2 in x 0.095 in (30.48 mm x 2.4mm) **HiTemp140-CF-1.3:** 1.3 in x 0.095 in (33.02 mm x 2.4mm) **HiTemp140-CF-1.4:** 1.4 in x 0.095 in (35.56 mm x 2.4mm) **HiTemp140-CF-1.5:** 1.5 in x 0.095 in (38.1 mm x 2.4mm) **HiTemp140-CF-1.6:** 1.6 in x 0.095 in (40.64 mm x 2.4mm) **HiTemp140-CF-1.8:** 1.8 in x 0.095 in (45.72 mm x 2.4mm) **HiTemp140-CF-2.1:** 2.1 in x 0.095 in (53.34 mm x 2.4mm) **HiTemp140-CF-2.2:** 2.2 in x 0.095 in (55.88 mm x 2.4mm) **HiTemp140-CF-3.1:** 3.1 in x 0.095 in (78.74 mm x 2.4mm) **HiTemp140-CF-3.9:** 3.9 in x 0.095 in (99.06 mm x 2.4mm) **HiTemp140-CF-5.4:** 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

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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