HITEMP140
HIGH TEMPERATURE
DATA LOGGER

The HiTemp140 is a rugged, high precision, temperature data logger that is built for use in harsh environments. This stainless steel device is submersible and can withstand temperatures up to 140 °C (284 °F). With the HiTemp140’s standard calibration, an accuracy of +/-0.1 °C (0.18 °F) can be achieved over a wide temperature range.

The HiTemp140 can store up to 32,700 readings, and features a rigid external probe capable of measuring extended temperatures, up to 260 °C (500 °F). Custom probe lengths are available up to 7 inches. The device records date and time stamped readings, and has non-volatile solid state memory.

Using the MadgeTech Software, starting, stopping and downloading the HiTemp140 is simple and easy. To use, simply place the HiTemp140 in the IFC400 or IFC406 docking station (sold separately). Using the software, an immediate or delay start can be chosen, as well as the reading rate. Start the data logger, remove it from the docking station and the device is ready to be deployed. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel® for further calculations.
**HITEMP140 SPECIFICATIONS**

**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)
- ±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)

**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:** 32,700 readings

**Wrap Around:** Yes

**Reading Rate:** 1 reading every second up to 1 reading every 24 hours

**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)

**Calibration:**
- Digital calibration through software

**Calibration Date:** Automatically recorded within device

**Data Format:** Date and time stamped °C, °F, K, °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

**Software:** XP SP3/Vista/Windows 7/Windows 8 (MadgeTech 4 Only)

**Operating Environment:**
- -40 °C to +140 °C (-40 °F to +284 °F), 0 %RH to 100 %RH

**Dimensions (Body HiTemp140-1):**
- 1.6 in x 0.970 in dia. (40 mm x 24.6 mm dia.)

**Dimensions (Body HiTemp140-2, 5.25, 7):**
- 1.9 in x 0.970 in dia. (48 mm x 24.6 mm dia.)

**Model Number**
- HITEMP140-1
- HITEMP140-2
- HITEMP140-2-TD
- HITEMP140-5.25
- HITEMP140-5.25-TD
- HITEMP140-7

**Dimensions (Probe):**
- HITEMP140-1:
  - 1.1 in x 0.125 in dia. (0.188 in transitional dia.)
  - 27 mm x 3.2 mm dia. (4.8 mm transitional dia.)
- HITEMP140-2:
  - 2.0 in x 0.125 in dia. (0.188 in transitional dia.)
  - 51 mm x 3.2 mm dia. (4.8 mm transitional dia.)
- HITEMP140-5.25:
  - 5.25 in x 0.125 in dia. (0.188 in transitional dia.)
  - 133 mm x 3.2 mm dia. (4.8 mm transitional dia.)
- HITEMP140-7:
  - 7.0 in x 0.125 in dia. (178 mm x 4.8 mm dia.)

**Weight:**
- 4.2 oz (120 g)

**Material:** 316 Stainless Steel

**Approvals:** CE

**ORDERING INFORMATION**

**MODEL**
- HITEMP140-1
- HITEMP140-2/
- HITEMP140-2-TD
- HITEMP140-5.25/
- HITEMP140-5.25-TD
- HITEMP140-7
- IFC400
- IFC406
- ER1425S-HT

**DESCRIPTION**
- High Temperature Data Logger with a 1” probe
- High Temperature Data Logger with a 2” probe/2” transitional diameter probe
- High Temperature Data Logger with a 5.25” probe/5.25” transitional diameter probe
- High Temperature Data Logger with a 7” probe
- Docking station with USB cable, software and manual
- 6 Port, Multiplexer docking station with USB cable, software and manual
- Replacement battery for the HiTemp140

**Calibration Certificate**

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Battery Warning: 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).