

HI141

# Temperature Dataloggers

- **BEPS (Battery Error Prevention System)**
  - Alerts the user of low battery power that could adversely affect readings
- **Multiple input channels**
  - One or two channels with internal or external sensor
- **Logging**
  - Non-volatile storage of logging
- **Waterproof**
  - Waterproof casing

The HI141 series is a family of temperature dataloggers with either one or two channels, internal or external temperature sensors and an optional LCD. External temperature sensor models feature one or two stainless steel sensors on a 1 m (3.3') cable for direct insertion. The HI141 can store up to 16,000 temperature samples in a protected, non-volatile EEPROM memory. The logging interval can be set from once per second to once per 24 hour period, and logging delay can be set anywhere up to 199 hours. The MIN or MAX temperature between logging intervals can also be stored. All of your collected data is tamper-proof and stored into serial numbered lots.

The HI141000 Windows® compatible software supports communication between the logger and the PC through the HI141001 infrared transmitter.

The waterproof housing can include a convenient hanging hook (simply add an "H" to the end of the code). For a typical 1 minute logging interval, the battery will last about 4 years.



## Specifications

Specifications		Display	Molded Eye for Hanging	Sensor(s)	Cable Length (if applicable)	Range
Model Specific	<b>HI141AH</b>		•	1 internal	–	-40.0 to 80.0°C / -40.0 to 176.0°F
	<b>HI141BH</b>		•	1 external	1 m (3.3')	-40.0 to 125.0°C / -40.0 to 257.0°F
	<b>HI141CH</b>	•	•	1 internal	–	-20.0 to 70.0°C / -40.0 to 158.0°F
	<b>HI141DH</b>	•	•	1 external	1 m (3.3')	-40.0 to 125.0°C / -40.0 to 257.0°F
	<b>HI141EH</b>		•	1 internal  1 external	1 m (3.3')	-40.0 to 80.0°C / -40.0 to 175.0°F -40.0 to 125.0°C / -40.0 to 257.0°F
	<b>HI141FH</b>		•	2 external	1 m (3.3')	-40.0 to 125.0°C / -40.0 to 257.0°F
	<b>HI141GH</b>	•	•	1 internal  1 external	1 m (3.3')	-20.0 to 70.0°C / -40.0 to 158.0°F -40.0 to 125.0°C / -40.0 to 257.0°F
	<b>HI141JH</b>	•	•	2 external	1 m (3.3')	-40.0 to 125.0°C / -40.0 to 257.0°F
All Models	Resolution	0.1°C (-40.0 to 100.0°C); 0.2°C (> 100.0°C) 0.1°F (-40.0 to 190.0°F); 0.3°F (> 190.0°F)				
	Accuracy	±0.5°C (-40.0 to 0.0 and 70.0 to 100.0°C); ±0.4°C (0.0 to 70.0°C); ±1.0°C (> 100.0°C); ±1.0°F (-40.0 to 32.0 and 158.0 to 212.0°F); ±0.8°F (32.0 to 158.0°F); ±2.0°F (> 212.0°F)				
	Environment	RH 100%				
	Diameter	86.5 mm (3.4")				
	Height	35 mm (1.4")				
	Weight	150 g (5.5 oz.)				
Ordering Information	All HI141 models are supplied with 3.6V Lithium AA battery, magnetic key and instructions.					
Accessories	<b>HI141000</b>	Windows® compatible software (required)				
	<b>HI141001</b>	infrared transmitter (required)				
	<b>HI740033</b>	3.6 V AA lithium battery				
	<b>HI740221</b>	key for HI141 magnetic start				

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## HI140

# Temperature Dataloggers

- **BEPS (Battery Error Prevention System)**
  - Alerts the user of low battery power that could adversely affect readings
- **Connectivity**
  - Remotely controlled from the PC

HI140 loggers are not much larger than a PC mouse. They are housed in a smooth, yet tough ABS casing that is sealed against ingress of dust and water.

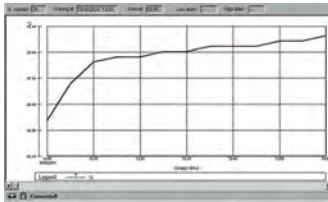
These dataloggers represent the most economical and secure way of monitoring temperature continuously over long periods of time. They can be placed with goods on the move, on supermarket shelves and in warehouses. They record the temperature at a given interval to make sure that perishable goods are not left unattended, such as on a loading dock on the other side of the world! For instance, users can check if fresh fish remained at unacceptable temperatures and for how long. They can provide that extra guarantee that goods never ventured out of limits of public safety.

HI140 models feature different temperature ranges to make them more accurate for your specific needs. A green LED on the front of the meter notifies users of the logging status, while a red LED serves as an alarm indication when undesired temperatures have been encountered.

The HI140 can store up to 7600 measurements at selectable intervals from 1 minute to 24 hours. All parameters can be set through our Windows® compatible software. An infrared cradle eliminates the need to put a connector on the meter - an undesirable dirt-trap in the food market and source of problems due to wear and tear over time.

Logged data can be transferred to a PC by simply placing the instrument on the HI90140 interface and running the HI92140 software. Users need just one interface connected to the PC to handle all Hanna dataloggers, each identified by a unique ID code.

The instruments are equipped with BEPS (Battery Error Prevention System), which alerts the user in the event that low battery power could adversely affect readings.



- The HI140 logger is an excellent way to conform with HACCP requirements and guarantee safety throughout the food chain
- Through HI92140 application software (optional), all models can be programmed to read °C or °F
- Completely user friendly - set the parameters to best fit your application

## Specifications

Model	Range	Resolution	Accuracy
<b>HI140AH</b>	-30.0 to 70.0°C / -22 to 158°F	0.5°C / 0.5°F	±1.5°C / ±3°F
<b>HI140BH</b>	-10.0 to 30.0°C / 14 to 86°F	0.2°C / 0.4°F	±0.5°C / ±1°F
<b>HI140CH</b>	-30.0 to 10.0°C / -22 to 50°F	0.2°C / 0.4°F	±0.5°C / ±1°F
<b>HI140DH</b>	20.0 to 60.0°C / 68 to 140°F	0.2°C / 0.4°F	±0.5°C / ±1°F
<b>HI140GH</b>	-5.0 to 15.0°C / 23 to 59°F	0.1°C / 0.2°F	±0.3°C / ±0.6°F
<b>HI140HH</b>	10 to 120°C / 50 to 248°F	1°C / 2°F	±2°C / ±4°F

## Ordering Information

All HI140 models are supplied with batteries and instructions.

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HI143

## T-Logger with Locking Wall Cradle

- **Battery indicator**
  - Battery life indicator on startup
- **Connectivity**
  - Logging start through PC
- **Logging**
  - Up to 4000 logged samples
- **Security**
  - Password protected

The HI143 is a temperature data logger with an internal NTC sensor. The HI143 is controlled via USB or RS232 on a PC with Hanna's Windows® compatible application software. Communication is made between the logger and the PC through the HI143001 transmitter with RS232, or HI143002 with USB connector. The supplied wall cradle makes it easy to lock the meter in place to prevent tampering, and the application software supports security passwords.



Specifications	HI143
Range	-30. to 70.0°C/-22.0 to 158.0°F
Resolution	0.1°C/0.1°F
Accuracy	±0.4°C (-20 to 60°C); ±0.6°C (outside); ±0.7°F (-4 to 140°C); ±1.1°F (outside)
Calibration	factory-calibrated
Data Logging	up to 4000 samples
Logging Interval	user selectable, from 1 minute to 24 hours
Battery Type / Life	CR2032 3V lithium ion / approximately 2 years
Protection	IP65 (water-resistant)
Dimensions	60 x 37 x 17 mm (2.4 x 1.5 x 0.7")
Ordering Information	<p><b>HI143</b> is supplied with CR2032 lithium battery, wall cradle, lock and instructions.</p> <p><b>HI143-00</b> is supplied with HI143 logger, HI143001 RS232 communication cradle, Windows® compatible application software, CR2032 lithium battery, wall cradle, lock and instructions.</p> <p><b>HI143-10</b> is supplied with HI143 logger, HI143002 USB communication cradle, Windows® compatible application software, CR2032 lithium battery, wall cradle, lock and instructions.</p>

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