



Temperature Dataloggers with Internal and External Sensors

The HI 141 series is a family of temperature data loggers 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 meter (3.3') cable for direct insertion. HI 141 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, up to every 24 hours, and logging delay start 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 user interacts with the logger, setting data acquisition parameters or downloading logged data, through an RS232 serial port on a Windows® PC. The HI 141000 Windows® compatible software supports communication between the logger and the PC through the HI 141001 infrared transmitter.

The housing is waterproof and can include a convenient hanging loop (simply add an "H" to the end of the code). A long-life AA lithium battery provides power. For a typical 1 minute logging interval, your battery will last about 4 years.

Note: Models with longer cable for external sensor are available upon request.

At a glance, you can assess the current temperature, channel and status of the logging sequence according to your programmed instructions:



Number of samples taken



Countdown until the start of logging



Number of samples which have exceeded the HIGH/LOW alarms



HIGH and LOW temperature values



HIGH and LOW alarm settings



Specifications

Model	Display	Sensor(s)	Range
HI 141A (H)		1 internal	-40.0 to 80.0°C / -40.0 to 176.0°F
HI 141B* (H)		1 external	-40.0 to 125.0°C / -40.0 to 257.0°F
HI 141C (H)	•	1 internal	-20.0 to 70.0°C / -40.0 to 158.0°F
HI 141D (H)	•	1 external	-40.0 to 125.0°C / -40.0 to 257.0°F
HI 141E* (H)		1 internal	-40.0 to 80.0°C / -40.0 to 176.0°F
		1 external	-40.0 to 125.0°C / -40.0 to 257.0°F
HI 141F* (H)		2 external	-40.0 to 125.0°C / -40.0 to 257.0°F
HI 141G* (H)	•	1 internal	-20.0 to 70.0°C / -40.0 to 158.0°F
		1 external	-40.0 to 125.0°C / -40.0 to 257.0°F
HI 141J* (H)	•	2 external	-40.0 to 125.0°C / -40.0 to 257.0°F

Specification for 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.)

* Models with different cable lengths are available upon request. Contact your nearest HANNA instruments® dealer.

Accessories

HI 141000	Windows® compatible software	HI 740221	Key for HI 141 magnetic start
HI 141001	Infrared interface for PC connection	HI 740033	3.6 V AA lithium battery

Ordering Information

All HI 141 models are supplied with HI 740221 magnetic start key, battery and instructions.