



Left: Shown with Y300 and Y412 probes

Above: Detail of USB socket

Below: Optional wall mounting security bracket

The hl4101 datalogger is one of a new series of advanced standalone temperature and humidity dataloggers. These smart loggers are ideal for situations where logging may be temporary, for enclosing with a valuable shipment or situations where a wired or radio system is not the best solution.

Each 4000 logger reads its on-board sensors to provide accurate and reliable information about environmental conditions. The logging interval can be set for any period between 10 seconds and 24 hours, depending on the data requirements. An unlimited delay can be set so that logging only begins when the unit is in situ. The readings are written to its 192K memory, which can either stop logging if it becomes full, or wraparound so that the most recent data is not lost. A unit set to log every 5 minutes will take more than 340 days to fill.

Each logger has an LCD screen simultaneously displaying the most recent readings taken, the predicted battery life, and if any readings have exceeded the alarm parameters set. The hl4101 logger is configured with 2 Lemo sockets for the probes. Probes can be connected directly to the unit, or supplied with cables and plugs for remote mounting. The flexible probe mounting options allow easy on-site calibration.

The logger is set-up and downloaded using an integrated software package which automatically recognises the type of unit connected to the PC via the USB lead. Additional software add-ons allow the software to be run with advanced security features. CFR21 part 11 compliant software is available. OQ & IQ templates are included, full on-site validation services are available.

The logger is powered by a single 3.6V AA lithium battery, which can be fitted by the user. The battery life will be dependent on the logging interval selected. An indicator on the LCD will warn when the battery is low, and the logger maintains a record of when the battery was last changed. Replacing the battery when the logger is connected to the PC allows the logging session to continue uninterrupted. The moulded case allows easy access to the battery and USB socket, as well as having slots to fit onto secure wall brackets. The ml4000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.



Temperature & humidity

Product Code HL4101
Series HL4000

Typical Applications

Monitoring in:
° Laboratories
° Hospitals
° Pharmaceutical
° Warehousing

Instrument

Dimensions: 110 x 80 x 35 mm
Weight: 200 grams
Power Supply: 3.6 Volt AA Lithium battery
Battery Life: Up to 3 years
Case Materials: ABS & PC
Memory Capacity: 100000 readings

N.B. Instrument operating range -10 to +70°C in a non-condensing RH environment

Sensors

Temperature

Sensor: Precision thermistor
Range: -40 to +70°C
Accuracy: +/- 0.1°C between -25 to +50°C +/-0.3 elsewhere
Resolution: 0.1°C

Humidity

Sensor: Precision capacitive polymer
Range: 0 to 100% non condensing
Accuracy: +/- 2%
Resolution: 0.1% RH

Logging Functions

Memory: 2048k EEPROM
Logging Intervals: Programmable from 10 seconds to 24 hours
Record Capacity: 100000 records
PC Interface: USB communications

Accessories

Code:	
W200	USB logger software
Y119	Wall mounting security bracket
Y055	Setup communications cable
G129	Replacement battery
W300	Validated software
Y300	Plug-in temperature probe
Y412	Plug-in RH probe
J095-05	Remote temperature probe
Y404-3-05	Remote RH probe