# **➡ Data**logger

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Detail of USB socket

Optional wall mounting security bracket

The hI4401 & hI4402 are precision 4-wire PT100 temperature dataloggers. The hl4401 is single channel the hl4402 is dual channel. The sensors are connected via 5 pin Lemo plugs and sockets. Each 4000 unit reads its on-board sensors providing accurate and reliable information about environmental conditions.

hI4000 series dataloggers can be used in accordance with GAMP and FDA regulations. The dataloggers and sensors can be calibrated by the either user or Hanwell staff on-site or at Hanwell's in-house calibration laboratory.

The dataloggers are setup and downloaded using a simple software program and a standard USB cable. Data can be downloaded into individual files or downloaded data can be appended to the previous data giving a continuous history. The data is stored at user-defined intervals programmable between 10 seconds and 24 hours. Memory capacity is 100000 readings. The software provides easy to use graphs, trends and statistics. Data can be exported to common office programs.

Each unit has an LCD screen simultaneously displaying the most recent readings taken and the predicted battery life. Alarm information is also displayed.

The datalogger is powered by a single 3.6V AA Lithium battery, which can be fitted by the user and battery life will be dependent on the logging rate set, typical life will be 3 years or better. 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.

The moulded case allows easy access to the battery and USB socket, as well as having slots to fit onto secure wall brackets.

CFR21 part 11 compliant software is available. OQ & IQ templates are included, full on-site validation services are available.

The 4000 range has been designed to comply with the RoHS and WEEE EU directives, and carries the CF mark



# PT100 Temperature

**Product Code** HL4401 & HL4402 HL4000 Series

## **Typical Applications**

Monitoring in:

- ° Fridge/Freezer monitoring
- ° 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

Operating Humidity Range: 0...100% non-condensing Operating Temperature Range: -20°C to +60°C

Memory Capacity: 100,000 readings

# Sensors

### **Temperature**

Sensor: 4 wire PT100 Range: -100°C to +110°C Accuracy: +/- 0.1°C Resolution: 0.1°C

# **Logging Functions**

Memory: 2048k EEPROM

Logging Intervals: Programmable from 10 seconds

to 24 hours

Record Capacity: 100,000 records PC Interface: USB communications

# Accessories

Code:

V200	USB logger software
V200	OOD logger sollware

Y119 Wall mounting security bracket Y055 Setup communications cable G129 Replacement 3.6V Lithium AA

batterv

CAL-T 3 point calibration between -20

> and +110°C (single Ch) 3 point calibration between -90

CAL-T-LOW and +110°C (single Ch)

CAL-T-2 3 point calibration between -20

and +110°C (dual Ch)

CAL-T-LOW-2 3 point calibration between -90

and +110°C (dual Ch)















