Description

The 8002 is a dedicated environmental monitoring system for use in workshops and laboratories where CalBenches are utilized. It is designed to measure temperature, relative humidity and barometric pressure. The unit is supplied as a mountable system supplied with a magnetic rear for the CalBench perforated panel or on blank modules.

It acts as an integrated solution with communication to a control centre module (if ordered), or external PC/laptop to obtain readings. Connection is via USB. The dedicated software application allows users to display values as tables or graphs. Data and reports can be printed or exported for as required. The software can also be used for basic set up of the unit and simple data analysis.

The purpose of the 8002 is to allow users to monitor environmental conditions and use this data on calibration certificates, via EasyCal software. the 8002 is also a self-sufficient battery powered data logger.

Magnetic rear for mounting on modules or CalBench perforated panel.

Ordering Information

8002.............................CalBench Environmental Monitoring System

Technical Specifications

Measured values.................Relative Humidity,Temperature & Atmospheric pressure.
Connectivity..........................Connects to CalBench Control Centre module via USB.
Software ....Supplied with logging software (pre-installed on control centre).

Temperature sensor
Measuring range ....-30 to +70 °C.
Accuracy .... ± 0.4 °C.
Resolution ....0.1 °C.

Humidity sensor
Measuring range ....0 to 100 % RH.
Sensor Accuracy ....±1.8 % RH at 23 °C in the range of 0 to 90 % RH.
Hysterisis... < ±1 % RH.
Non-linearity.. < ±1 % RH.
Resolution .... 0.1 % RH.

Dew point
Measuring range ....-90 to +70 °C.
Accuracy ....±1.5 °C at ambient temperature T <25 °C and RH >30 %.
Resolution ....0.1 °C.

Atmospheric pressure sensor
Measuring range ....600 to 1100 hPa.
Accuracy .... ±1.3 hPa at 23 °C from 800 to 1100 hPa.
Resolution .... 0.1 hPa.

General technical data
Operating temperature ....-30 to +70 °C.
Channels ....internal temperature, humidity and pressure sensors
Memory .... 500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode.
Recording interval .... adjustable from 1 s to 24 h.
Display and alarm refresh ....adjustable 1 s, 10 s, 1 min.
Recording mode.................non cyclic - data logging stops after filling the memory. cyclic - after filling memory oldest data is overwritten by new.
Real time clock ....year, leap year, month, day, hour, minute, second
Power.. Lithium battery 3.6 V; size AA.
Protection class...IP67.
Dimensions/Weight ....61 x 93 x 32 mm, 120 g.
Calibration certificates ....Supplied with traceable certificate, ISO 17025 optional.

Time Electronics Ltd, Unit 5 TON Business Park, 2-8 Morley Road, Tonbridge, Kent, TN9 1RA, United Kingdom
T: +44 (0) 1732 355993 | F: +44 (0) 1732 350198 | mail@timeelectronics.co.uk | www.timeelectronics.com

v2c
03/23