

# USB Data logger for temperature and RH HM9000

## DATASHEET

**Product Description**      USB data logger for temperature and relative humidity. The USB data logger has a memory for 32.000 readings (16000 temperature- and 16000 humidity readings), a dew point indication, and a user-selectable alarm. Supplied with analysis software.



**Application**      Air conditioning, coating industry, construction/building maintenance, food, hospital, real estate, wholesale, wood

- Features**
- memory for 32.000 readings (16000 temperature- and 16000 humidity readings)
  - dew point indication
  - status indication
  - multi-mode to start logging
  - selectable measuring interval ( 2, 5, 10 or 30 seconds; 1, 5, 10 or 30 minutes; 1, 2, 3, 6, 12 or 24 hours)
  - user-selectable alarm
  - USB interface
  - analysis software
  - long battery life

**Specifications**

Relative Humidity	Range	0-100%
	Accuracy (0 to 20% and 80 to 100%)	+/- 5.0%
	Accuracy (20 to 40% and 60 to 80%)	+/- 3.5%
	Accuracy (40 to 60%)	+/- 3.0%
Temperature	Range	-40°C to 70 °C
	Accuracy (-40°C to -10°C and +40°C to +70°C)	+/- 2 °C
	Accuracy (-10°C to +40°C)	+/- 1°C
	Accuracy (-40°F to +14°F and 104°F to 158°F)	+/- 3.6°F
	Accuracy (+14°F to 104°F)	+/-1.8°F
Dew Point temperature	Range	-40°C to 70°C (-40°F to 158°F)
	Accuracy (25°C, 40% to 100% Relative Humidity)	+/- 2.0°C (+/- 4.0°F)
Logging rate	Selectable sampling interval: 2, 5, 10 or 30 seconds; 1, 5, 10 or 30 minutes; 1, 2, 3, 6, 12 or 24 hour	
Operating temperature	-35°C to 80°C (-31°F to 176°F)	
Battery type	3.6V Lithium (1/2AA) (SAFT LS14250, Tadiran TL-5101 or equivalent)	
Battery life	1 year(typ.) depending on logging rate, ambient temperature & use of Alarm LED's	
Dimensions, weight	101x25x23mm (4x1x0.9") / 172gr. (6oz)	



## Use

Colored LED's indicate the status of the data logger. The logged data can be downloaded by plugging the data logger into the USB port of the computer, and analyzed with the supplied software. More information can be found in the manual.

## Safety Precautions

- Before replacing the battery, remove the data logger from the PC
- Leaving the model plugged into the USB port for longer than necessary will cause some of the battery capacity to be lost.
- Handle lithium batteries carefully, observe warnings on battery casing. Dispose of in accordance with local regulations.
- Regularly clean the sensor as described in the manual. If permanent damage to the internal sensor is suspected, replace the logger immediately to insure accurate readings.

## Disclaimer:

The information given in this manual is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this manual without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this manual or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this manual is liable to modification from time to time in the light of experience and our policy of continuous product development.