

# Rugged humidity & temperature data logger DCMHT10xx



- Battery powered compact data logger
- Temperature and humidity measurement with integrated semi-conductors
- Memory up to 21,845 measurements per channel
- Programmable start and stop
- Easy export into Microsoft EXCEL™
- Operating environment -40 °C to +150 °C and 0 %RH to 100 %RH



DCMHT10XX

Der DCMHT10xx is a rugged, water resistant (case properly sealed), battery powered, stand alone device which can be used to automatically record humidity and temperature. This all in one compact, portable, easy to use device is able to measure and record up to 21,845 humidity and temperature measurements. The DCMHT10xx is ideal for harsh environments. Its real time clock ensures that all data is time and date stamped. The storage memory is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The DCMHT10xx makes data retrieval quick and easy. Simply plug the device into an empty USB port and our user-friendly software does the rest.

**Temperature Sensor:** Integrated semiconductor -40 °C to +80 °C; resolution of 0,1 °C.

**Humidity Sensor:** Integrated semiconductor 0 %RH to 100 %RH; resolution of 0,5 %RH.

**Calibrated Accuracy:** +/-0,5 °C and +/-3 %RH.

Specified Accuracy Range: +10 °C to +40 °C, 10 %RH to 80 %RH.

**Start modes:** Software programmable immediate start or delay start up to six months in advance.

**Real Time Recording:** The device may be used with PC to monitor and record data in real-time.

**Memory:** Non volatile memory up to 21,845 readings per channel; software configurable memory wrap.

**Reading Rate:** One reading every 2 seconds to 1 every 12 hours.

**Calibration:** Digital calibration through software.

**Calibration Date:** Automatically recorded within device.

**Battery Type And Life:** 3,6 V lithium battery included, user replaceable, with 1 year typical battery life (1 minute reading @ 25 °C).

**Data Format:** Date and time stamped °C, °F, °K, °R; %RH, mg/ml vapor concentration.

**Time Accuracy:** +/-1 minute/month at 20 °C (RS232 cable not in use).

**Computer Interface:** PC serial or USB (Interface cable required); 2,400 baud.

**Software:** Windows XP SP3 / Vista / Windows 7 compatible

**Operating Environment:** -40 °C to +80 °C, 0 to 100% RH.

**Dimensions:** 5.4" x 1.0" dia. (138 mm x 26 mm dia.)

**Weight:** Aluminum 5 oz (145 g); Stainless steel 10 oz (285 g).

**Software:** Windows 95 / 98 / ME / NT / 2000 / XP / Vista compatible.

**Software features:**

**1. Graph:** Visualisation and analysis of the recorded data of multiple devices and measurements at the same time. Easy toggling between single and multiple visualisation possible.

**2. Real time measurement:** Visualisation of real time measurement including logging at the same time.

**3. Graphical cursor:** One click at the graph results in displaying time, measurement value, parameters and device number.

**4. Data table:** Instant access to the data table of the measurement values.

**5. Scaling:** An automatic scaling function is available for displaying all measured values on one screen. It is also possible to perform a manual scaling.

**6. Format:** Individual settings of the graph colour, graph characteristics and much more.

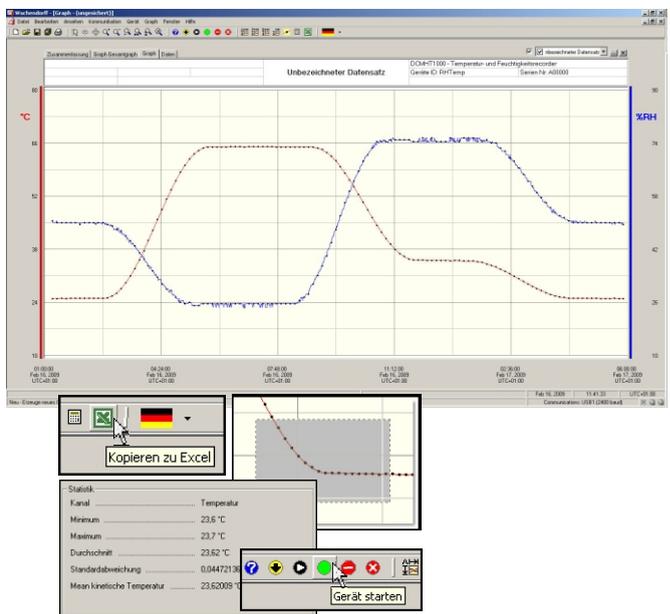
**7. Statistic function:** Average, Minimum and maximum values, deviation etc. Could be easily created and displayed by one click.

**8. Export of data:** Export of data in different formats (\*.dat; \*.csv; \*.txt). The export in EXCEL™ with one mouse click.

**9. Interface:** Automatic detection of the serial communication port.

**10. Configuration:** Die Messrate, Start- und Stopzeiten können einfach eingestellt werden.

**11. Print:** Printing out of the data and/or graph with one click.



**Order information**

Type	Order no.
Temperature and humidity data logger with aluminium case	DCMHT1000
Temperature and humidity data logger with stainless steel case	DCMHT10SS
<b>Accessories:</b> Software with interface cable to PC, USB	DCMIFC200
Software with interface cable to PC, RS232	DCMIFC110
Replacement battery	DCMTL2150