

OPERATION MANUAL

Humidity/temperature measurement system Hytelog Multisensor with USB-interface

Description



Characteristics features

- Combined Temperature and Humidity measurement
- Three RJ12-connecting sockets
- Resolution 0.01 % RH, 0.01°C
- Accuracy 1,8 % RH, 0.2°C
- Inclusive of Windows-Software "PCLOG"

Areas of application

- Monitoring of stock rooms, in quality assurance or air conditioning systems
- Systems engineering

Windows-Software „PCLOG“

- Calculation and display of dew point, absolute humidity, vapour pressure, saturated vapour pressure and enthalpy
- Tabular representation of measured values
- Storing of data on hard disk

Technical data

Humidity measurement	
Humidity measuring range	0...100% RH (depending on the connected probe)
Humidity resolution	0.01% RH
Typical accuracy	±1.8% RH (at 23 °C)
Temperature measurement	
Temp. measuring range	-40...+125 °C (may vary slightly depending on sensor)
Temperature resolution	0.01 °C
Accuracy	±0.2 °C between 0 and 60 °C, depending on the sensor
Module	
Power supply	Over the USB port
Operating current	ca. 50 mA
Operating voltage	5 VDC via USB interface
Interface	USB 1.1 and 2.0 compatible
Housing dimensions (LxWxH)	126 x 54 x 26 mm
CE-conformance	2014/30/EU
EMV-noise emission:	EN 61000-6-3:2011
EMV-noise withstanding:	EN 61000-6-2:2011
Scope of delivery	Transducer with USB-connection cable, CD with Windows-Software and data sheets

Description

The product offers an efficient measurement and display system for up to 3 sensors for temperature and relative humidity. The scope of supply includes a port converter, which enables direct operation through the USB port of a PC. The software „PCLOG“ and an USB-connection cable are also in the scope of delivery.

For measuring humidity and temperature you can use the sensors HYT221, HYT271 or HYT939. The high quality polymer sensor guarantee outstanding measuring accuracy and long-term stability, also under extreme operating conditions.

The current measured values are transferred to the connected PC through the USB interface. The display and graphical representation of the measured values appear on the PC. An easy to use Windows software for display of measured values and data representation is included in the scope of supply. The USB driver software emulates a serial COM-port. The ASCII-protocol for data communication is documented and enables integration with user's own developed programs.

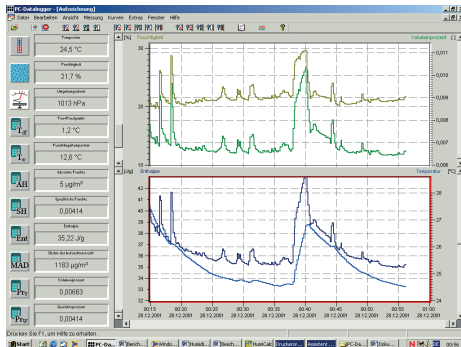
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Software „PCLOG“

Besides storing data on hard disk, the software offers a very important feature of graphical representation of all measured and recorded channels in the form of humidity and temperature Vs time chart (online scriber function). By means of Drag & Click, the window section can be enlarged and the time or temperature axis can be scaled as desired. Besides the graphic view, representation is also possible in the form of a table. The in-between space is used for capturing measured data series into a spreadsheet program (for example EXCELTM) or for word processing. All tables and graphic representations can be printed out in colour. In addition, simple monitoring and control functions are also integrated in the software. Limits can be set for each channel. An acoustic signal (Wave file) is given out when the values are exceeded.

A speciality of the program is the integrated hx-calculator. This calculates further fifteen parameters like dew point, absolute humidity, enthalpy, the wet bulb temperature, the vapour pressure and saturated vapour pressure etc. from the measured values of relative humidity and temperature.



First time operation

Connect the humidity measuring system to the USB- Interface of the Computer. Please start the software „PCLOG“.

Download: bb-sensors.download/en

The required settings are done. If no interface is found, please choose the interface by hand. The record window is opened, when the measuring system is identified. If a sensor is identified, you can see the values on the left side.

Then you can choose the value you want to record in the record window. Right click on the record window and choose „formatting and axes“. In the menu you can choose the values you want to record. With the button „Start recording“ the record will be started.

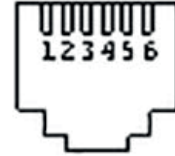
Attention

Please avoid extreme mechanical and inappropriate exposure.

The device/product is not suitable for potential explosive areas and medical-technical applications.

Pin assignment

1 VDD	2 GND
3 SDA	4 SCL
5 GND	6 NC



Ordering numbers

Article	Articleno.
Humidity and temperature measuring system Hytelog Multisensor inkl. 1 m USB-connection cable, operation manual and software	0567 0001
Humidity and temperature measuring system Hytelog Multisensor- Set 1 inkl. digital humidity/temperature probe with I ² C-interface art. no. 0636 0011, cable length 3 m, 1 m USB-connection cable and service case with operation manual and software	0570 0001
Humidity and temperature measuring system Hytelog Multisensor- Set 2 inkl. digital humidity/temperature module with I ² C-interface art.no. 0626 0110-05, 1 m USB-connection cable and service case with operation manual and software	0570 0002
Humidity and temperature measuring system Hytelog Multisensor- Set 3 inkl. digital humidity/temperature probe art.no. 0381 0006, 1 m USB-connection cable and service case with operation manual and software	0570 0004

Accessories	Articleno.
Digitale humidity/temperature module with I ² C interface	0626 0110-05
Connection cable for humidity/temperature probe, Art.-Nr. 0626 0110-05, Length 2 m, TPE-sheath	0409 3004
Digital humidity/temperature probe with I ² C-interface, cable length 3 m	0636 0011
Digital humidity/temperature probe	0636 0016

Please note that if up to 3 digital humidity / temperature probes are connected at the same time, the I²C addresses must be different.

Digital humidity / temperature sensor with I²C interface 0636 0011 I²C address: 0x28

Digital humidity / temperature sensor with I²C interface 0636 0011-09 I²C address: 0x29

Digital humidity / temperature sensor with I²C interface 0636 0011-10 I²C address: 0x2A