

DATA SHEET



Humidity hand held probe for air measurement FF-HM309-LC

Description



Characteristic features

- To be used with the portable Hygrometer HM309-USB
- Ideal for ambient air humidity measurements
- Measurement of inlet and outlet air
- Fast response time
- Accurate humidity and temperature measurement
- Resistent against environment influences and long term stable
- Pre-calibrated, ready to use

Application areas

- Ambient air measurement
- Air- conditioning technology
- Quality control / assurance
- Industrial measurement technology

Technical data

Humidity hand held probe FF-HM309-LC	
Humidity measuring range	0...100%RH
Humidity accuracy	±2% RH
Sensor	Capacitive humidity sensor
Response time t90 , Humidity	Ca. 10 sec
Temperature measurement range	-40...+80 °C
Temperature accuracy	±0,3 K (@ 0...+50 °C)
Operating temperature	0 °C...+60 °C
Dimensions (ØxL)	12 mm x 70 mm
Probe material	Plastic , ABS, black
Handle material	PA 6, black
Cable	Helix cable : about 250 mm, effective length: about 1.000 mm
Connection	Mini DIN 8PIN, black
Article	Art.-No.
Humidity hand held probe for air measurement FF-HM309-LC	FF-HM309-LC
Accessories	Art.-No.
Hygrometer for humidity, dew point, pressure dew point, tem- peratur	HM309-USB
Windows-Software PCLOG	PCLOG-TELOG

Description

This hand held temperature and humidity probe is to be connected via its Mini DIN (8 pins) plug to the portable hygrometer HM309-USB. It allows in a Plug & Play way a fast and easy temperature and humidity monitoring.

Properties

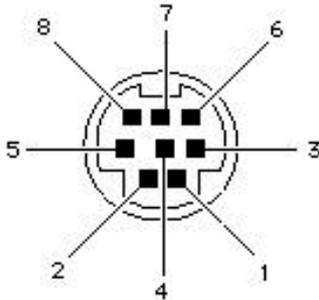
The very accurate calibration and the use of long term stable polymer capacitive sensor makes this probe ideal for the monitoring of air quality, in quality control and assurance and in industrial measurement technology. With the combined temperature and relative humidity measurements, secondary physical quantities, such as absolute humidity and dew point temperature can be computed and visualised on the portable device HM309-USB. With the free software "Recorder", included in the delivery scope of the HM309-USB, further quantities like freezing point, Enthalpy and others can be computed and visualised. The "Recorder" Software offers also the possibility to continuously record / log the measured and computed data over a long period of time on a PC. The optional "PCLOG" software offers additionally among others an on line graphical evaluation of the measured / computed data.

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Pin assignment



Pin 1: Vcc (5 V DC)

Pin 2: GND

Pin 3: DALLAS

Pin 4: not use

PIN 5: SDA

PIN 6: SCL

PIN 7: not use

PIN 8: not use

Interface Communication protocol

See Manual of the HM309-USB