

PRODUCT DESCRIPTION

DigiH/M-x probe with the I²C output is designed to measure air temperature and relative humidity in chemically non-aggressive environments. It has been designed for connection to the input of the COMET Multilogger device. The probe is interchangeable (calibration constants are saved in the probe).

The probes are supplied in several variants depending on the cable length (last digit of probe name indicates the cable length). Devices are suitable for stationary or portable applications.

TECHNICAL PARAMETERS

- Temperature
 - Range: Accuracy: Response time:

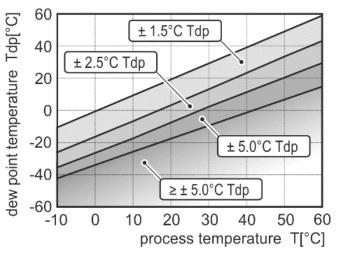
-10 to +60 °C ± 0.4 °C t90 < 3 min (temperature step 20 °C, air flow 1 m/s)

- Relative humidity
 - Range: Accuracy of the humidity sensor: Hysteresis: Linearity error: Temperature error: Response time:

0 to 100 %RH (without condensation) ±1.8 %RH in the range of 0 to 90 %RH at 23 °C < ±1 %RH < ±1 %RH 0,05 % RH/°C (0 °C to +60 °C) t90<10 s (humidity step 60 %RH, constant temperature)

- Calculated humidity quantities
 - 1/ Dew point temperature Range: Accuracy:

-60 to +60 °C



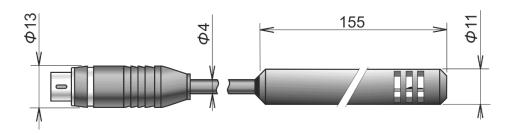
2/ Absolute humidity Range:

0 to 130 g/m³

	Accuracy:	±1.5 g/m ³ for ambient temperature T < 25 °C		
	3/ Specific humidity Range: Accuracy:	0 to 130 g/kg ±2 g/kg for ambient temperature T < 35 °C and atmospheric pressure of 1013 hPa		
	4/ Mixing ratio Range: Accuracy:	0 to 150 g/kg ±2 g/kg for ambient temperature T < 35 °C and atmospheric pressure of 1013 hPa		
	5/ Specific enthalpy Range: Accuracy:	0 to 450 kJ/kg ±5 kJ/kg for ambient temperature T < 35 °C and atmospheric pressure of 1013 hPa		
•	Operating temperature range: Operating relative humidity range:	-10 to +60 °C 0 to 100 %RH (without condensation)		
•	Power: Current consumption:	2.7 to 5.5 V 50 μA @ 5 V		
•	Recommended calibration interval:	1 year		
•	Storage temperature: Storage relative humidity:	-10 to +60 °C 0 to 100 %RH (without condensation)		
•	Electromagnetic compatibility:	EN 61326-1 (tested with Multilogger) Emission: EN 55011, class B Immunity: EN 61000-4-2, 4 kV/8 kV, class A EN 61000-4-3, 3 V/m, class A EN 61000-4-4, 0.5 kV/ 1 kV, class A EN 61000-4-6, 3 V, class A		
•	Protection: Working position:	IP30 without restriction		

Working position: Cable length: Weight (with cable): Material: IP30 without restriction 1m, 2m, 5m 55g / 1m, 80g / 2m, 155g / 5m ABS

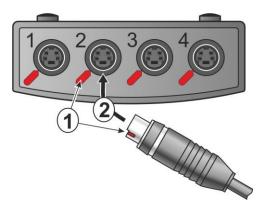
DIMENSIONS



INSTALLATION

Choose input for connection of the probe. Turn the connector so that the red mark on the connector and the red mark on the instrument panel are in the same position (1) and then insert the connector (2).

The probe does not require any special service or maintenance. We recommend periodic calibration for measurement accuracy validation.



TECHNICAL SUPPORT AND SERVICE

Technical support and service is provided by distributor. For contact see warranty certificate. If needed, you can also use the discussion forum at http://www.forum.cometsystem.cz/.

WARNING



• It is not recommended to use the probe for long time under condensation conditions.

It is not recommended to use the probe for long time in a dusty environment.

- Don't connect or disconnect the probe cable while Multilogger is turned on incorrect values could be recorded in the memory of the Multilogger.
- The probe contains electronic components, it needs to liquidate them according to legal requirements.

Warranty certificate

This product has three years warranty since the date of sale to the end user. Defects due defective materials, defective manufacturing or design will be repaired free of charge by the manufacturer. The location of repair is at manufacturer's. No warranty is given to products operated in conditions not matching the conditions specified by the manufacturer in instruction manual. Also no warranty is given to products which were modified by the user, products with broken seal, products which were connected to power or input signals not matching the technical specification (Instruction manual). No warranty is given to consumables, e.g. batteries, fuses and eventual changes of parameters created by wear (influence of aggressive environment etc.).

Serial number:

Sale date:

DISTRIBUTOR