



COMET SYSTEM, s.r.o.

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D3631 Thermo-hygrometer



code: D3631

Thermometer, hygrometer is designed for measurement and datalogging of temperature, relative humidity into the internal non-volatile memory.

Free PC program enables to transfer recorded data to the computer for evaluation.
LCD backlight.

Data logger is connected to the PC through included USB cable only for data transfer from the memory. During connection with the PC no measurement and record is enabled.
Temperature and air relative humidity reading, dew point temperature reading selectable, built-in sensors. A Cinch connector for connection of an external RTD Ni1000/6180ppm temperature probe.

Surface, pointed-tip, insertion and other probes with Cinch connector are available. Indication of temperature difference of external probe and dew point. Audio and visual alarm for the temperature difference e.g. for monitoring of condensation or mould creation.

Included in delivery:

- Traceable calibration certificate
- 9V battery
- Instruction manual
- Plastic transport case
- Connector for external ac/dc adapter
- mini USB cable
- Self adhesive Dual Lock for easy installation
- Free basic Windows software is ready to download at folder Download

Technical Data

Technical parameters	Value
Measured Value	Temperature + Relative Humidity
Construction Type	For One Internal and External Temperature Probe
Temperature Measuring Range	-50 to 250 °C
Data Logging Function	Yes
Operating temperature range	-10 to +60°C

Temperature sensor	RTD Ni1000/6180ppm
Accuracy of temperature measurement with built-in sensor	±0.4°C
Accuracy of temperature input without external probe:	±0.2°C from -50 to +100°C ±0.2% from reading from +100 to +250°C
Accuracy of air humidity measurement	±2.5%RH from 5 to 95% at 23°C, resolution 0.1%
Accuracy of dew point measurement	1.5 °C at ambient T < 25°C and RH>30%, range -60 to +80 °C
Power	battery 9V
Battery life	4 months typically
Real time clock	year, leap year, month, day, hour, minute, second
PC interface	USB
Sampling interval in data logging mode	10s to 24hours (18 adjustable intervals)
Total memory capacity	up to 16000 recorded values
Data logging modes	noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
Dimensions	141 x 71 x 27 mm
IP protection	IP20
Weight including battery	approximately 150 g
Warranty	3 years