



COMET SYSTEM, s.r.o.

Bezrucova 2901
756 61 Roznov pod Radhostem
CZECH REPUBLIC
Tel.: +420 571 653 990

E-mail: info@cometsystem.com

D3121P Thermo-hygrometer for compressed air measurement



code: D3121P

Thermometer, hygrometer is designed for measurement and datalogging of temperature, relative humidity for compressed air up to 25 bars with 1m cable 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 USB cable only for data transfer from the memory. During connection with the PC no measurement and record is enabled.

Simultaneous reading of temperature and relative humidity, dew point temperature reading selectable, external temperature-humidity probe with 1meter cable. Cable lengths 2 and 4 meters available optionally. Probe diameter is 18mm, length 135mm.

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	Compressed Air Humidity up to 2.5MPa
Temperature Measuring Range	-30 to 105 °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 air humidity measurement	±2.5%RH from 5 to 95% at 23°C, resolution 0.1%

Dew point temperature range	-60 to +80 °C
Accuracy of dew point temperature (for more details see instruction manual)	±1.5°C for dew point temperature +10°C and higher at ambient temperature +25°C
Accuracy of dew point temperature	±2.0°C for dew point temperature 0°C at ambient temperature +25°C
Accuracy of dew point temperature	±3.0°C for dew point temperature -10°C at ambient temperature +25°C
Accuracy of dew point temperature	±6.0°C for dew point temperature -20°C at ambient temperature +25°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, probe length 150mm, probe diameter 18mm
IP protection	IP20 instrument, IP40 T+RH probe
Mechanical connection of probe	G1/2 with O-Ring
Length of the probe cable	1m, 2m or 4m optionally
Weight including battery without probe	approximately 150 g
Warranty	3 years