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 trasfer 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.

Technical data

TEMPERATURE SENSOR	
Measuring range	-30 to +105 °C
Accuracy	±0.4 °C
Resolution	0.1 °C
HUMIDITY SENSOR	
Measuring range	0 to 100 % RH
Accuracy	±2.5 % RH from 5 to 95 % at 23 °C
Resolution	0.1% RH
DEW POINT	
Measuring range	-50 to +80 °C
Accuracy	±1.5 °C at ambient temperature T <25 °C and RH >30 %
Resolution	0.1 °C
GENERAL TECHNICAL DATA	
Operating temperature	electronics -10 to +60 °C, external probe -30 to +105 °C
Channels	1x connectable temperature+humidity probe
Acoustic signalization + backlit LCD	YES
Memory	16,000 values (non-cyclic record)
Recording interval	adjustable from 10 s to 24 h
Measuring interval and display reading refresh	0.7 to 5 s
Recording mode	noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
Real time clock	year, leap year, month, day, hour, minute, second
Power	battery 9 V or 12 Vss adaptor with NiMH 9 V battery
Battery life	approx. 6 months

Protection class	IP20 electronics, IP40 sensors
Dimensions (without connectors)	191 x 71 x 27 mm; length/diameter of external probe 135/18 mm
External probe cable length	1 meter
Weight (including batteries)	approx. 150 g
Warranty	3 years