Technical HVAC Meter PCE-313A

HVAC Meter for relative humidity and temperature / SD card (1 ... 16 GB) / interface for online data transfer / powered by batteries or alternatively mains component / additional K type thermocouple connection

The PCE-313 A HVAC Meter has been designed for professional applications in the air-conditioning and measurement technologies. In addition to the relative humidity, the HVAC Meter determines the ambient temperature. You also have the possibility to measure the temperature of, for instance, a wall via the K type thermocouple connection and by using the optionally available surface probe. The SD card memory (1 … 16 GB) enables humidity and temperature readings to be recorded at an adjustable sampling rate in direct mode or permanently in data logging mode. To use these functions, you can previously program or preset the humidity meter by means of the keypad and then record permanently on site without having to observe the process all the time. For permanent recording we recommend to power the humidity meter via the power adapter which can be optionally purchased. The readings recorded in line with the data logging function can be transferred to a PC for further analysis (.xls file on the SD card). Additionally, you can check the columns of figures for outliers or create a graph in Excel.

Characteristics

- measures temperature, humidity, dew point and external temperature via the K type thermocouple connection
- flexible real-time data memory by means of SD memory card (1 … 16 GB)
- the data can be saved to the SD card directly as an Excel file
- the SD card can be formatted while it is inside the device
- data hold function
- external sensor for easy and flexible measurement of the environmental conditions
- low battery indication
- large LC display
- tripod connection
- adjustable sampling rate of 1 … 3600 seconds
- easy to use
- resilient case
- 2 GB SD card included in the delivery
- optionally available software kit for online transfer to a PC or laptop (please note that no software is necessary to analyse the saved data)

Technical specifications

Ranges

- Relative humidity	5 ... 95 % r.H.
- Temperature	0 ... +50 °C
- Type K	-50 ... +1300 ºC
- Calculated dew point	-25,3 ... +48,9 ºC
- Wet bulb temperature	-21 ... +50 ºC

Resolution

- Relative humidity	0,1 % r.H.
- Temperature	0,1 °C
- Type K	0,1 °C
- Calculated dew point	0,1 °C
- Wet bulb temperature	0,1 °C

Accuracy

- Temperature	±0,8 ºC
- Relative humidity	≥70 % r.H. ±3 % of the measurement value.. + 1 % r.H.
	<70 % r.H. ±3 % r.H.
- Type K	± (0,4 % + 0,5 ºC)

Memory	SD card (1 ... 16 GB)
Measurement rate	adjustable, 1 ... 3600 seconds
Display	LCD de 52 x 38 mm, with backlight
Interface	RS-232
Operating conditions	0 ... +50 °C
	< 85 % r.H.
Power supply	6 x 1,5 V batteries/
	9 V mains adapter (optional)
Dimensions	177 x 68 x 45 mm
Weight	approx. 490 g

Contents:

1 x PCE-313 A, 1 x sensor for temperature and humidity, 1 x SD card (2 GB),
6 x batteries, 1 x manual