Technical Data Logger PCE-313 S

Data- Logger PCE-313 S

Data- Logger with SD memory card and sintered hood tester of humidity to measure relative humidity and temperature, with internal memory through the SD card (1 to 16 GB) / interface for real time data transference / powered by battery or mains component / additional connection for thermo-elements/

The PCE-313S Data- Logger has been designed for the professional use in the air-conditioning sector. The PCE-313S Data- Logger determines both relative humidity and ambient temperature. The PCE-313S Data- Logger can be connected to type K thermo-elements to detect, for instance, the temperature of a wall by means of a surface probe. The internal memory of the PCE-313S Data- Logger allows to record humidity and temperature values, with a free adjustment of the measurement rate for real time measurements or data storage thanks to its SD memory card (1 to 16 GB). The PCE-313S Data- Logger can be previously programmed via the keypad so the device can record values without the need of being present during the process. For long term records, we recommend you to power the PCE-313S Data- Logger by means of a mains component (optional). Recorded values can be transferred to a PC for further analysis (xls file in the SD card). This property allows to check measured values or design a graphic by means of the Excel calculation program.

- Measures temperature, humidity, dew point and temperature via the connection to a thermo-element.
- Memory with possibility of real time registration by means of the SD memory card (1 to 16 GB)
- Data is directly stored in Excel format in the SD card.
- The SD card can be formatted in the Data- Logger
- Data-Hold Function
- External sensor for an easy and flexible measurement of the environmental conditions.
- Low battery indication
- Large LCD display
- Connection for tripod
- Measurement rate adjustment from 1 to 3600 seconds
- Easy-to-use
- Solid case
- 2 GB SD card and card reader included in the delivery
- Optional software for real time data transference to a computer or portable computer (no additional software is required for data analysis)

Technical Specifications

Ranges

- Relative humidity	5 ... 95 % H.r.
- 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 % H.r.
- 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 % H.r.±3 % of the measurement value.. + 1 % H.r.
	<70 % H.r. ±3 % H.r.
- 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 % H.r.
Power supply	6 x 1,5 V batteries/
	9 V mains adapter (optional)
Dimensions	177 x 68 x 45 mm
Weight	approx. 490 g

Delivery contents:

1 x PCE-313S Data- Logger (with sintered hood)
1 x combined sensor for temperature and humidity
1 x SD card (2 GB)
1 x card reader
6 x batteries
1 x user's manual