

Technical Specification Weather Station PCE-WL 2

Anemometer PCE-WL 2

suited for stationary or mobile measurements / data memory on SD cards / wind direction sensor / wind speed sensor / battery powered / internal temperature sensor

The Anemometer PCE-WL 2 is used to measure current wind situation before starting wind energy plants. The Anemometer saves measured data for wind direction and wind speed on a SD memory card. After measuring the data can be evaluated on a PC. The casing is weather resistant and protected according to IP65. The cable of the Anemometer PCE-WL 2 will be connected via screwed connections. The Anemometer is measuring velocities up to 40 m/s and wind directions over a range from 2.5 ° - 357,5 °. The Anemometer is equipped with low wear reed relays that ensure a long life-time. Optionally, the Anemometer PCE-WL 2 is able to be equipped with a display. This display shows measured results of wind direction and velocity immediately.

- Hard casing
- Internal temperature sensor
- Internal clock
- RS232 interface for configuration
- Display optionally available
- Battery life time up to 1 year
- Memory on a SD card as CSV data
- Environmental temperature -15 ... 50 °C
- Memory of average values and maximum results
- Measuring range wind velocity 1 ... 40 m/s
- Measuring range wind direction 2.5 ° ... 357.5 °

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Data memory	SD/MMC card (FAT 16/32)
Voltage supply	2 x 1.5 V batteries, type C
Environmental temperature	-15 ... + 50 °C
Inputs	1 x analogue input (wind direction) 2 x digital input (wind velocity)
Interface	RS232
Interval of memory	10 sec, 1 min or 10 min
Memory medium	SD memory card (max 2 GB)

Type of data	CSV data, ASCII
Casing	hard plastic casing
Protection standard	IP65
Dimensions	160 x 80 x 55 mm
Weight	450 g

Wind energy sensor

Wind energy- velocity sensor

Measuring range	1 ... 40 m/s
Sensor	2 reed contacts (zero potential)
Output	impulses zero potential
Resolution	2.3 Hz/ms ⁻¹
Maximum applied load	10 VA, 0.5 A, 42 VDC

Wind energy wind direction sensor

Measuring range	2.5 ... 357.5 °C
Sensor	0 ... 1 KΩ
Neutral position	5 ° open to north

Wind energy sensor general technical data

Dimensions	418 x 30 mm
Mast support	31 x 26 mm
Protection standard	IP54
Weight	1 kg

Delivery Content

- 1 x PCE-WL 2 Anemometer
- 1 x wind speed sensor
- 1 x wind direction sensor
- 1 x 256 MB SD memory card
- 2 x battery
- 1 x user manual