

WEATHER STATION

PCE-FWS 30



- » **Outdoor sensors with thermo-hygrometer, anemometer, rain gauge, UV and light sensor**
- » **Wireless data transmission with a range of up to 1500 m in free field**
- » **Weather forecast based on barometric pressure**
- » **Adjustable alarm functions for various weather parameters**
- » **Operation with batteries (AAA and AA) and solar panel as auxiliary power**
- » **Easy installation and maintenance, including cleaning of the rain gauge**
- » **Long battery life of at least 12 months**

The Weather Station provides precise and comprehensive weather data for professional applications, agriculture, building management or demanding weather observers. The outdoor sensors reliably record temperature, humidity, wind speed, rainfall, UV radiation and solar light intensity, enabling detailed analysis of current weather conditions.

The sensor system consists of a thermo-hygrometer, anemometer, rain gauge and UV and light sensor. Wireless data transmission takes place in the 868 MHz frequency range (Europe) and achieves a range of up to 1500 m in free field. All measured values are clearly displayed on the color display.

In addition to current weather data, the Weather Station offers a weather forecast based on barometric pressure trends. Individually adjustable alarm functions reliably inform users about defined limit values for various weather parameters. In addition, temperature, humidity, wind speed, rainfall and sunlight can be calibrated to increase measurement accuracy.

The Weather Station is suitable for use in the northern and southern hemispheres and is characterized by its simple installation and low maintenance requirements. For permanently reliable rainfall measurement, the rain gauge can be cleaned easily. Power is supplied by AAA and AA batteries.

Specification

Absolute pressure	
Measuring range	300 ... 1100 hPa
Resolution	0,1 hPa
Accuracy	±3 hPa
Speed	
Measuring range	0 ... 10 m/s
Resolution	0.1 m/s
Accuracy	±0.3 m/s
Speed	
Measuring range	10 ... 50 m/s
Resolution	0.1 m/s
Accuracy	±10 % of Rd
Light	
Measuring range	0 ... 200 klx
Resolution	1 lx
Accuracy	±15 % of Rd
Wind direction	
Measuring range	0 ... 360 °
Resolution	1 °
Accuracy	±10°
UV	
Measuring range	1 ... 15
Resolution	1
Accuracy	±1
Precipitation	
Measuring range	0 ... 9999 mm
Resolution	1 mm
Accuracy	<15 mm: ±1 mm >15 mm: ±7% of meas. val.
Relative humidity	
Measuring range	10 ... 99 %
Resolution	1 %
Accuracy	±5 % of Rd
Relative humidity sensor	
Measuring range	10 ... 99 %
Resolution	1 %
Accuracy	±5% f.s.
Temperature	
Measuring range	0 ... 60 °C

General technical data	
Display type	LC colour display with backlight
Display size	7 Inch
Interface	WiFi
Alarm	optical, Acoustic
Alarm modes	Upper alarm, lower alarm See operating instructions for details
Menu language	English (GB), English
Protection class (device)	IP20
Protection class (additional information)	Outdoor unit IP52
Power supply	Display: 5.9V DC (power supply or 3x AAA battery) Outdoor unit: 3x AA battery
Connector type	Euro plug
(Rechargeable) battery	3 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Operating conditions	0 ... 60 °C , 10 ... 99 % RH
Storage conditions	0 ... 60 °C , 10 ... 99 % RH
Dimensions (L x W x H)	193 x 140 x 30 mm
Weight	400 g

Resolution	0,1 °C
Accuracy	±1 °C
Temperature sensor	
Measuring range	-40 ... +60 °C
Resolution	0,1 °C
Accuracy	±1 °C