# WEATHER STATION

## PCE-FWS 20N

- **Software for analyzing the stored data**
- **Backlit 7 inch touch screen**
- **Weather forecast function**
- **Automatic time setting thanks to DCF**
- **Adjustable alarms when the measured value is exceeded**
- **Wind direction and wind speed**
- **Temperature and humidity display**
- **Solar panel on the outdoor unit to the supply**

This wireless weather station is a true all-rounder that leaves little to be desired. Whether at home or in the office, the wireless weather station will delight the operator with its versatility. This weather station allows accurate recording of wind direction, wind force, temperature, relative humidity and rainfall. This is just a small selection of the possibilities this weather station offers. In addition, the operator has the possibility to activate various alarm functions on the wireless weather station (wind speed, air pressure, ...). With the help of the values displayed on the weather station, the user can, amongst other things, decide which clothes are appropriate, or whether the garden must be watered, and much more. The weather data is sent up to 100 meters by radio signal to the main station.

The wireless weather station is equipped with the latest technology in weather analysis. The transmitter is powered by a solar panel and the batteries. With the newly developed touch screen display, the weather data can be easily accessed directly from the wireless weather station by simply tapping on the display. With the USB interface and the included USB cable, the weather data can be transmitted directly from the wireless weather station to a PC or laptop. These data are all provided with a time / date stamp in order to be able to assign them even after a longer period of time. Here the weather data can be stored indefinitely.

## Specification

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| **Absolute pressure** | |
| Measuring range | 300 ... 1100 hPa |
| Resolution | 0,1 hPa |
| Accuracy | ±3 hPa |
| **Speed** | |
| Measuring range | 0 ... 5 m/s |
| Resolution | 0.1 m/s |
| Accuracy | ±1 m/s |
| **Speed** | |
| Measuring range | 5,1 ... 50 m/s |
| Resolution | 0.1 m/s |
| Accuracy | ±10 % |
| **Air pressure** | |
| Measuring range | 300 ... 1100 hPa |
| Resolution | 0,1 hPa |
| Accuracy | ±3 hPa |
| **Precipitation** | |
| Measuring range | 0 ... 1000 mm |
| Resolution | 0,3 mm |
| Accuracy | ±6% |
| **Precipitation** | |
| Measuring range | 1001 ... 9999 mm |
| Resolution | 1 mm |
| Accuracy | ±6% |
| **Relative humidity** | |
| Measuring range | 1 ... 99 % |
| Resolution | 1 % |
| **Relative humidity sensor** | |
| Measuring range | 20 ... 80 % RH |
| Resolution | 1 % RH |
| Accuracy | ±4% |
| **Relative humidity sensor** | |
| Measuring range | 1 ... 99 % RH |
| Resolution | 0,1 % RH |
| Accuracy | ±6 % beyond 20 ... 80% |
| **Temperature** | |
| Measuring range | 0 ... 50 °C |
| Resolution | 0,1 °C |

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| **General technical data** | |
| Measuring functions | ALARM |
| Frequency | 868 ... 868 MHz |
| Display type | LCD |
| Display size | 7 in |
| Display refresh rate | 1 x per second |
| Measuring rate | 48 s |
| Storage medium | Internal memory |
| Storage capacity | 4080 Data records |
| Memory capacity (additional information) | Ring memory |
| Storage interval from | 5 s |
| Storage interval to | 240 min. |
| Interface | USB-A |
| Operating time | 2 Year(s) |
| Operating time additional information | Display: min. 12 months<br>Outdoor unit: min. 24 months |
| Housing | ABS (acrylonitrile-butadiene-styrene copolymers) |
| Dimensions | Display:<br>Length 230 mm<br>Width 150 mm<br>Height 35mm |
| Menu language | English, English (GB) |
| Protection class (device) | IP X3, IP44 |
| (Rechargeable) battery | 5 x 1,5 V AA battery , Alkali-manganese |
| Capacity | 3000 mAh |
| Operating conditions | -40 ... 60 °C , 1 ... 99 % RH |
| Storage conditions | -40 ... 60 °C , 1 ... 99 % RH |
| Dimensions ( L x W x H ) | 410 x 120 x 200 mm |
| Weight | 713 g |

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