

PCE-FWS 20

Radio Weather St. with Touchscreen, Solar Cell, 5 Sensors

- interior / exterior temp, interior / exterior humidity, air pressure, absolute or relative air pressure, precipitation, wind velocity, wind direction, wind chill & dew point
- weather forecast, tendency indication and storm warning
- programmable alarm functions for different weather conditions as well as storage of minimum and maximum values of the received weather data
- power supply of the transmitter by means of rechargeable battery and solar cell
- LED backlight / radio clock with 12 or 24 hours indication



TECHNICAL SPECIFICATIONS

| | |
|-------------------|---|
| Meas. range | wind velocity: 0 ... 180 km/h |
| Accuracy | wind direction: 0 ... 360 ° temp. in: 0 ... +60 °C, ±0.3 °C / out: -40 ... +65 °C, ±0.2 °C relative humidity: 1 ... 99 % RH, ±3 % RH air pressure: 919 ... 1080 hPa, ±0.25 hPa rain: 0 ... 9999 mm, ±0.3 mm at 5 mm |
| Calculated values | dew point, wind chill |
| Radio range | max. 100 m in the open air |
| Interface | USB |
| Alarm | adjustable for all parameters (min. and max.) |
| Display | touchscreen LCD |
| Power supply | 3 x 1.5 V batt. (display) / 2 x rech. batt. and solar cell (transmitter) |
| Dimensions | 230 x 150 mm (display) |

INCLUDES

Main station with touchscreen, sensors for temperature, humidity, rain, wind velocity and direction, weather mast, USB cable, software, instruction manual

ITEM NO. ITEM

K-PCE-FWS 20 radio weather station



PCE-WL 1

Data Logger for Wind Velocity with SD Card

- internal temperature sensor and internal real-time clock
- RS-232 interface for configuration
- compact wind sensor with heater
- saves data to SD card as csv file
- saves average and maximum values



TOP
seller

TECHNICAL SPECIFICATIONS

| Data logger | Wind sensor |
|---|---|
| Accuracy ±1 % of reading | Output 0 ... 100 Hz at 40 m/s |
| Memory SD card (max. 2 GB) | Meas. range 0.8 ... 40 m/s |
| Power supply 2 x 1.5 V batteries type C | Accuracy ± 0.5 m/s or 5 % of rdg. |
| Operating cond. -15 ... + 50 °C | Load max. 60 m/s short-term |
| Inputs 1x analogue 2x digital | Contact load 10 VA, 42 V dc, 0.4 A |
| Interface RS-232 | Heater max. 24 V dc / ac; 1 A |
| File format csv file, ASCII format | Assembly mounting bracket |
| Sampling rate 10 s / 1 min / 10 min | Operating cond. -25 ... +60 °C (ice free) |
| Case resilient plastic | Cable 3 m; LiYY 4 x 0.5 mm ² |
| Protection class IP 54 | Protection class IP 65 |
| Dimensions 160 x 80 x 55 mm | Dimensions Ø 134 x 160 mm |
| Weight 450 g | Weight ca. 300 g |

INCLUDES

Data logger, wind sensor, mounting bracket, batteries, 2 GB SD memory card, instruction manual

ITEM NO. ITEM

K-PCE-WL 1 wind data logger

OPTIONAL ACCESSORIES

K-PCE-WLD 06.12 display RS-232
K-PCE-KWG1 small wind transmitter with pulse output
K-PCE-KWR1 wind direction sensor with potentiometer output

PCE-WL 3 System

GPRS Logger for Wind Velocity and Wind Direction

- protection due to different seals / metal alloy / long life of wind sensors
- direct measurement of wind direction / measurement even possible if wind is low
- data logger function via GPRS / remote access to inputs and outputs
- SMS alarm to up to 10 numbers



TECHNICAL SPECIFICATIONS

Wind velocity sensor PCE-FST-200-201

| | |
|----------------------|--|
| Meas. range | 0.5 m/s ... 50 m/s |
| Accuracy | ±0.5 m/s (<5 m/s) ±3 % f. s. (≥5 m/s) |
| Max. velocity | 70 m/s at max. 30 min |
| Output signal | 4 ... 20mA (PCE-FST-200-201-I) |
| Operating voltage | 12 ... 36 V dc |
| Operating conditions | -20 ... +85 °C at ≤ 95 % RH |
| Electr. connection | M12 |
| Protection class | IP 65 |

Wind direction sensor PCE-FST-200-202

| | |
|---------------------|--------------------------------|
| Meas. range | 0 ... 360° |
| Resolution | 22.5° |
| Accuracy | ±3° |
| Meas. possible from | ≤0.8 m/s |
| Max. velocity | 70 m/s at max. 30 min |
| Output signal | 4 ... 20mA (PCE-FST-200-202-I) |
| Electr. resistance | 250 Ω |
| Operating voltage | 12 ... 36 V dc |
| Electr. connection | M12 |
| Protection class | IP 65 |

GPRS data logger

| | |
|----------------------|--|
| Analogue outputs | 4 x |
| Edition | 4 ... 20 mA or 0 ... 5 V |
| GPRS frequency | quad band (900 / 1800 / 850 / 1900 MHz) |
| SIM card | mini SIM card 1.8 V and 3 V |
| Memory | 256 kB (approx. 1000 values) |
| Interface | RS-232 |
| Power supply | 12 ... 24 V dc (max. 150 mA / Ø 50 mA) |
| Operating conditions | -30 ... +70 °C / 0 ... 95 % RH |
| Dimensions / weight | 130 x 80 x 25 mm / 370 g |

INCLUDES

GPRS logger, velocity sensor, wind direction sensor, SIM card holder, mains adaptor, RS-232 cable, aerial, software (English), instruction manual

| ITEM NO. | ITEM |
|---------------------|--------------------|
| K-PCE-FST-200-201-I | velocity 4- 20 mA |
| K-PCE-FST-200-202-I | direction 4- 20 mA |
| K-PCE-GPRS 2 | GPRS data logger |

PCE-KWG1

Wind Transm. w. Pulse Outp. & Heater

- wind transmitter with integrated heater
- simple assembly
- 3 m connection cable
- suitable for PCE-WL 1 / 2



TECHNICAL SPECIFICATIONS

| | |
|----------------------|-----------------------------------|
| Meas. range | 0.9 ... 40 m/s |
| Output | 0 ... 100 Hz |
| Accuracy | ±0.5 m/s or 5 % of reading |
| Load | max. 60 m/s short-term |
| Contact load | 10 VA, max. 42 V dc, max. 0.4 A |
| Assembly | with mounting bracket |
| Heater | max. 24 V dc / ac, max. 1 A |
| Operating conditions | -25 ... +60 °C (ice free) |
| Cable | 3 m; LiYY 4 x 0.5 mm ² |
| Protection class | IP 54 |
| Dimensions | Ø 134 x 160 mm |
| Weight | ca. 300 g |

INCLUDES

Small wind transmitter, data sheet

| ITEM NO. | ITEM |
|------------|-------------|
| K-PCE-KWG1 | wind sensor |

OPTIONAL ACCESSORIES

| | |
|-------------|---------------------------------|
| K-IFMA-0035 | frequency / analogue transducer |
| K-IFMA-0065 | frequency / analogue transducer |