

## PCE-A420

### Cup Anemometer

- 100-point data logger, key operation
- protection class IP 65
- wind direction not important for measurement
- units: m/s, km/h, ft/min, knots and miles/h
- LC display 28 x 19 mm
- Auto-Power Off / MIN, MAX and HOLD functions



#### TECHNICAL SPECIFICATIONS

(m/s)	0.9 ... 35.0
(ft/min)	144 ... 6895
(km/h)	2.5 ... 126.0
(mph)	1.6 ... 78.2
(knots)	1.4 ... 68.0
Resolution	0.1 m/s; 0.1 km/h; 0.1 knots 0.1 mph; 1 ft/min
Accuracy	±2 %
Memory	100 values
Cups	Ø 135 mm, plastic
Power supply	4 x 1.5 V AAA batteries
Operating conditions	0 ... +50 °C, <80 % RH
Dimensions / weight	190 x 40 x 32 mm / 180 g

#### INCLUDES

Cup anemometer, batteries, case, instruction manual

ITEM NO.	ITEM
K-PCE-A420	cup anemometer

#### OPTIONAL ACCESSORIES

K-CAL-AM	ISO calibration certificate
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## PCE-AM81

### Pocket Anemometer

- MIN, MAX, HOLD function
- different units selectable: m/s, km/h, knots, miles/h, ft/min
- vane runs smoothly / LCD height 8 mm
- comes with hand strap and manual



#### TECHNICAL SPECIFICATIONS

(m/s)	0.4 ... 30.0
(ft/min)	80 ... 5910
(km/h)	1.4 ... 108.0
(mph)	0.9 ... 67.0
(knots)	0.8 ... 58.3
Resolution	0.1 m/s; 0.1 km/h; 0.1 knots 0.1 mph; 1 ft/min
Accuracy	±3 %
Display	LC display, height 8 mm
Propeller	plastic vane
Power supply	1 x 9 V block battery
Operating conditions	0 ... +50 °C
Dimensions / weight	156 x 60 x 33 mm / 160 g

#### INCLUDES

Vane anemometer, hand strap, battery, manual

ITEM NO.	ITEM
K-PCE-AM81	vane anemometer

#### OPTIONAL ACCESSORIES

K-CAL-AM	ISO calibration certificate
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## PCE-AM 82

### Pocket Wind Velocity Meter

- vane runs very smoothly
- compact design / MAX, MIN functions
- m/s, km/h, Beaufort, miles/h, ft/min
- HOLD function to freeze reading
- including hand strap, carrying case and manual



#### TECHNICAL SPECIFICATIONS

Meas. ranges	0.4 ... 20.0 m/s -10 ... +50 °C 0 ... 100 % RH
Resolution	0.1 m/s 0.1 °C 0.1 % RH
Accuracy	±2 % of reading ± 0.3 m/s
Display	LC display
Range excess	display indicates „- - - -“
Case	ABS plastic
Power supply	3 x 1.5 V AAA batteries
Operating conditions	-10 ... 50 °C / 0 ... 80 % RH
Dimensions / weight	160 x 60 x 35 mm / 150 g

#### INCLUDES

Pocket wind velocity meter (incl. vane sensor), hand strap, carrying case, instruction manual

ITEM NO.	ITEM
K-PCE-AM 82	pocket wind velocity meter



# Air Velocity Meter

## PCE-TA 30

### Vane Anemometer with Flexible Probe

- measures wind velocity, temperature and volume flow
- flexible 400 mm probe / selectable units
- LCD indicates wind velocity and temperature at the same time
- MAX and MIN value indication / DATA HOLD function



#### TECHNICAL SPECIFICATIONS

Wind velocity	1.0 ... 30 m/s
Temperature	-10.0 ... +60.0 °C
Volume flow	0.0 ... 999900 ft <sup>3</sup> /min (calculated on the basis of velocity and surface after entering the cross section)
Resolution	0.01 m/s; 0.1 °C; 0.1 ft <sup>3</sup> /min
Accuracy	±3 % ±0.2 of reading ±1.5 °C
Ø vane	27.2 mm
Display	LC display
Propeller	plastic
Power supply	1 x 9 V block battery
Operating cond.	probe: 0 ... +50 °C / <80 % RH
Dimens. / weight sensor:	35 x 400 mm / 257 g (total)

#### INCLUDES

Vane anemometer with flexible probe, battery, storage box, instruction manual

ITEM NO.	ITEM
K-PCE-TA 30	vane anemometer

#### OPTIONAL ACCESSORIES

K-CAL-AM	ISO calibration certificate
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## PCE-007

### Vane Anemometer w. External Probe

- calculates and displays volume flow
- memory capacity for 2000 values
- RS-232 interface / incl. software and data cable
- display units: m/s, ft/min, knots, km/h, mph
- dual LCD / MIN, MAX, HOLD function



#### TECHNICAL SPECIFICATIONS

Wind velocity	0.3 ... 45 m/s
Temperature	0.0 ... +45.0 °C
Volume flow	0.0 ... 999900 m <sup>3</sup> /min (calculated on the basis of velocity and surface after entering the cross section)
Resolution	0.01 m/s; 0.2 °C; 0.001 ... 100 m <sup>3</sup> /min
Accuracy	±3 % ±0.1 of reading ±1 °C
Ø vane	50 mm / plastic
Memory / softw.	2000 values / included, RS-232
Display	4 digits, dual LC display
Power supply	1 x 9 V PP3 battery (typ. 50 h)
Operating cond.	500 mbar ... 2 bar / 0 °C ... +60 °C
Dimens. / weight sensor:	60 x 130 x 25.5 mm / 350 g

#### INCLUDES

Anemometer with external vane, English software, data cable, battery, instruction manual

ITEM NO.	ITEM
K-PCE-007	vane anemometer

#### OPTIONAL ACCESSORIES

K-RS232-USB	adaptor RS-232 to USB
K-CAL-AM	ISO calibration certificate

## PCE-THA 10

### Anemo-Thermo-Hygrometer

- measures wind velocity and calculates air flow rate
- saves up to 20 readings (can be read out in the display)



#### TECHNICAL SPECIFICATIONS

<b>Temperature</b>	
Meas. range	-15 ... +50 °C
<b>Wind velocity</b>	
Meas. range	0.4 ... 30 m/s, 80 ... 5900 ft/min
Accuracy	±3 %
Units	m/s, ft/min, km/h, knots, cm/s, air flow r.
Meas. range	0 ... 9.999 m <sup>3</sup> /s (air flow rate)
<b>Air humidity</b>	
Meas. range	5.0 ... 95.0 % RH
Accuracy	±3 % RH at +25 °C; otherwise ±5 % RH
Memory	up to 20 sets of data
Power supply	3 x AAA batteries
Dim. / weight	244 x 77 x 43 mm / approx. 200g

#### INCLUDES

Anemo-thermo-hygrometer, batteries, USB cable, storage box, bag, instruction manual

ITEM NO.	ITEM
K-PCE-THA 10	anemo-thermo-hygrometer



## PCE-VA 10

### Anemometer with External Probe (Wind Velocity + Volume Flow)

- LC display with activatable backlight
- Automatic Power off after 15 minutes of inactivity
- different units selectable: m/s; km/h; ft/min.; knots; mph; cmm; cfm
- sampling rate 1/s



#### TECHNICAL SPECIFICATIONS

	Measurement range	Accuracy
Wind velocity	0.3 ... 45.0 m/s	3 % ±0.1
Temperature	-30 ... +60 °C	±1.5 °C
Volume flow	calculated after entry of a cross section between 0.001 and 9999 m <sup>2</sup> (volume flow in m <sup>3</sup> /min. = cmm)	
Sampling rate	1 / s	
Functions	MIN / MAX / HOLD functions; Automatic Power Off after 15 min MEAN value	
Units	m/s; km/h; ft/min; knots; mph; cmm; cfm	
Display	LC display; with bar graph indication	
Power supply	9 V block battery	
Operating conditions	-10 ... +60 °C / <80 % RH	
Dimensions / weight	185 x 66 x 33 mm / 311 g	

#### INCLUDES

Hand-held anemometer, vane sensor with coiled cable, 9 V battery, carrying case, instruction manual

ITEM NO.	ITEM
K-PCE-VA 10	vane anemometer, up to 45.0 m/s



## AVM-3000 & AVM 4000

### Pocket Wind / Climate Meter

- exchangeable vane (Ø 25 mm)
- AVM-3000: dew point (DP) / AVM-4000 additionally: DP, wind chill, heat index, altitude above sea level
- waterproof up to a depth of 1 m / IP67; Auto Power Off after 30 min
- humidity recalibration possible with additional set



#### TECHNICAL SPECIFICATIONS

	AVM-3000	AVM-4000
Model	AVM-3000	AVM-4000
(m/s)	0.3 ... 41; (km/h) 1 ... 144	0.3 ... 41 (km/h) 1 ... 144
(mph)	0.7 ... 89; (knots) 0.6 ... 78	0.7 ... 89; (knots) 0.6 ... 78
(Beaufort)	1 ... 11	1 ... 11
Temperature	-15 ... +50 °C	-29 ... +70 °C
Relative hum.	0 ... 100 % RH	5 ... 95 % RH
Air pressure	---	870 ... 1080 hPa (accur.: ±3 hPa)
Resolution	m/s, km/h: 0.1; temp.: 0.1 °C	m/s, km/h: 0.1; temp.: 0.1 °C
Accuracy	RH: 0.1 %; air pressure: ---	RH: 0.1 %; air pressure: 1 hPa
	wind veloc. ±3%rdg.; temp.: ±1 °C	wind veloc. ±3%rdg.; temp.: ±1 °C;
	RH ±3 %; DP: ±2 °C	RH ±3 %; DP: ±2 °C
Dimensions	122 x 42 x 14 mm	127 x 45 x 28 mm
Weight	45 g	100 g

#### INCLUDES

Pocket anemometer (one of the two models), battery, instruction manual

ITEM NO.	ITEM
K-AVM-3000	anemometer AVM-3000
K-AVM-4000	climate meter AVM-4000

#### OPTIONAL ACCESSORIES

K-CAL-AVM-3/4	humidity calibration set
K-AVM-4000-I	PC interface / software for AVM-4000
K-CAL-AM	ISO calibration certificate wind velocity

# Air Velocity Meter

## LCA-301

### Compact Vane Anemometer

- measures wind velocity, temperature & volume flow
- ideal with capture hoods at one-tube fans
- vane made of aluminium, Ø 100 mm
- 4-digit LCD / Automatic Power Off
- variable integration time, min. 3 s, max. depending on flow, e. g. 2 min at 7.5 m/s



hood optionally available

## KM Series

### Anemometer with High Accuracy (Vane Made of Metal)

- two different devices and two different probes available
- reinforced metal probe
- high sensitivity at low velocities
- minimum and maximum values
- analogue output and connection for PC



Probe AP275

Probe AP100

Probe	Sonde AP275	Sonde AP100
Wind vel.	0.2 ... 40 m/s	0.3 ... 35 m/s
Ø	Ø 70 mm	Ø 25 mm
Accuracy	±1.0 % of reading	±1.0 % of rdg.
Resolution	0.01 m/s	0.01 m/s



#### TECHNICAL SPECIFICATIONS

Measurement range	
Wind velocity	0.25 ... 30 m/s
Air temperature	0 ... +50 °C
Air volume flow	0.01 ... 3000 m³/s
	0 ... 999999 m³/h (after entry of cross section)
Resolution / accuracy	
Wind velocity	0.01 m/s / ±1 % (of reading)
Air temperature	0.1 °C / ±1 °C
Air volume flow	0.01 m³/s ... 100 m³/h (each range)
Power supply	1 x 9 V block battery
Dimensions / weight	280 x 112 x 235 mm / 290 g

#### INCLUDES

Anemometer, factory calibration certificate, carrying bag, battery, instruction manual

#### ITEM NO. ITEM

K-LCA-301 vane anemometer

#### OPTIONAL ACCESSORIES

K-VHK-LCA capture hood A (Ø 180 mm)  
K-CAL-LCA ISO calibration certificate

#### TECHNICAL SPECIFICATIONS

Model	KM 6812	KM 6813
Temperature	---	-20 ... +100 °C
Accuracy	---	±0.3 % of rdg. ±0.2 %
Resolution	---	0.1 °C
Material vane	metal	
Display	4-digit LCD with backlight	
Output	analogue	
Power supply	4 x 1.5 V AA battery	
Operating conditions	anemometer	probe
	0 ... +50 °C	-20 ... +100 °C
Dimensions	165 x 82 x 38 mm	
Weight	400 g	

#### INCLUDES

Anemometer (one of the models), vane probe (KM 6813 with temperature probe), batteries, case, manual

#### ITEM NO.

#### ITEM

K-KM6812/275 USB KM 6812 with probe AP275, incl. USB interface  
K-KM6812/100 USB KM 6812 with probe AP100, incl. USB interface  
K-KM6813/275 USB KM 6813 with probe APT275, incl. USB interface  
K-KM6813/100 USB KM 6813 with probe APT100, incl. USB interface

#### OPTIONAL ACCESSORIES

K-CAL-LCA ISO calibration certificate  
K-KM 10216 USB kit for KM 6812

# Air Velocity Meter

## PCE-423

### Thermal Anemometer

- measures wind velocity and temperature
- telescopic probe extendable
- very suitable for low wind velocities
- different units selectable
- incl. software for online real-time transfer
- saves MIN and MAX values / Data Hold function



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#### TECHNICAL SPECIFICATIONS

Velocity	0.1 ... 25 m/s
Temperature	0 ... +50 °C
Resolution	0.01 m/s; 0.1 °C
Accuracy	±5 %; ±1.0 °C
Probe length	185 ... 1000 mm
Sensor	Ø min-max (10 ... 12 mm)
Data Hold	included
Interface	USB
Functions	Automatic Power Off (after 5 min)
Display	LC display (46.7 x 60 mm)
Power supply	9 V block battery
Operating conditions	0°C ... +50 °C / <80 % RH
Dimensions	210 x 75 x 50 mm
Weight	280 g

#### INCLUDES

Thermal anemometer, telescopic probe with cable, software, USB cable, battery, mains adaptor, manual

ITEM NO.	ITEM
K-PCE-423	thermal anemometer

#### OPTIONAL ACCESSORIES

K-CAL-AM	ISO calibration certificate
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## PCE-009

### Data Logger / Thermal Anemometer

- measures wind velocity and temperature
- calculates air volume flow
- telescopic probe extendable
- selectable units: m/s, km/h, ft/min, knots, miles/h
- MIN and MAX values and Data Hold function
- memory capacity for 16 K values / sampling rate 2 s ... 9 h / RS-232



#### TECHNICAL SPECIFICATIONS

Meas. range	wind velocity	0.2 ... 20.0 m/s
	air temperature	0.0 ... +50.0 °C
	volume flow	0 ... 36000 m³/min
Resolution	wind velocity	0.1 m/s
	air temperature	0.1 °C
	volume flow	0.001 ... 1 m³/min
Accuracy	wind velocity	±1 % (of range)
	air temperature	±0.8 °C
Sensor	L = 280 ... 940 mm; Ø = 8 ... 12 mm	
Display	58 x 34 mm LCD	
Power supply	4 x 1.5 V AA batteries	
Dimensions	200 x 76 x 38 mm	
Weight	515 g	

#### INCLUDES

Logger anemometer, telescopic probe (with 1.5 m cable), RS-232 cable, software, batteries, case, manual

ITEM NO.	ITEM
K-PCE-009	anemometer

#### OPTIONAL ACCESSORIES

K-RS232-USB	adaptor RS232 to USB
K-CAL-AM	ISO calibration certificate

## PCE-VS Series

### Float-Type Flow Meter

- quickly readable in Nm³/h or l/h
- break-proof / corrosion-resistant
- no external energy supply
- accuracy class 4 according to VDI 3513
- for liquid and gaseous media
- adjustable setpoint indicator




#### TECHNICAL SPECIFICATIONS

Range water	Resolution	Item no.
15 ... 150 l/h	5 l/h	PCE-VS 101W
50 ... 500 l/h	10 l/h	PCE-VS 102W
100 ... 1000 l/h	20 l/h	PCE-VS 103W
200 ... 2000 l/h	100 l/h	PCE-VS 104W
300 ... 3000 l/h	200 l/h	PCE-VS 105W
600 ... 6000 l/h	200 l/h	PCE-VS 106W
1200 ... 12000 l/h	200 l/h	PCE-VS 107W
Range air	Resolution	Item no. *
0.8 ... 5 Nm³/h	0.1 Nm³/h	PCE-VS 101Lx*
2 ... 18 Nm³/h	0.5 Nm³/h	PCE-VS 102Lx*
4 ... 34 Nm³/h	1 Nm³/h	PCE-VS 103Lx*
10 ...	on request, depending on model	

#### INCLUDES

Float-type flow meter (one of the models), instruction manual

#### Configuration, price, editions

 technical support: +44 (0) 2380 98703 5

## 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



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#### TECHNICAL SPECIFICATIONS

Data logger	Wind sensor
Accuracy	Output
Memory	Meas. range
Power supply	Accuracy
Operating cond.	Load
Inputs	Contact load
Interface	Heater
File format	Assembly
Sampling rate	Operating cond.
Case	Cable
Protection class	Protection class
Dimensions	Dimensions
Weight	Weight

#### 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

## Watchdog

### Weather Station for Wind Velocity & Direction, Temp., Humidity, Precipitation, ...

- measures many parameters and calculates dew point and wind chill (can be extended to up to 6 external sensors)
- selectable sampling rate: 1, 10, 15, 30 or 60 minutes
- memory capacity for 8800 series of measurement
- non-volatile EEPROM if battery is too low
- PC interface for real-time monitoring and diagnosis
- LC display shows MIN / MAX values as well as current readings
- mast, wall and tripod can be mounted
- battery life 12 months



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## Watchdog-Sensors

### Sensoren for Different Parameters

- Soil temperature sensor
- measurement range: -30 ... +100 °C
  - accuracy:  $\pm 0.6$  °C
  - cable: 1.8 m and 6.1 m available
- Solar radiation sensor
- measurement range: 1 ... 1250 W/m<sup>2</sup>
  - accuracy:  $\pm 5$  %
  - cable: 1.8 m
- PAR sensor (photosynthetically active radiation)
- measurement range: 0 ... 2500  $\mu\text{mol}/\text{m}^2/\text{s}$
  - accuracy:  $\pm 5$  %
  - cable: 1.8 m
- Soil moisture sensor
- measurement range: 0 ... 100 %
  - accuracy:  $\pm 2$  %
  - cable: 1.8 m
- Air pressure sensor
- meas. range: 660 ... 810 mmHg (880 ... 1080 mbar)
  - accuracy:  $\pm 1.3$  mmHg ( $\pm 1.8$  mbar)
  - cable: 30 cm
- Standard signal input cable
- input range: 0 ... 2.5 V or 4 ... 20 mA
  - length: 1.8 m

### TECHNICAL SPECIFICATIONS

Measurement range / accuracy	wind velocity: 0 ... 281 km/h, $\pm 5$ % wind direction: 0 ... 360 °, $\pm 7$ °; temperature: -20 ... +70 °C, $\pm 0.6$ °C RH: 20 ... 100 % RH, $\pm 3$ % RH; precipitation: 6.5 cm/measuring period, $\pm 2$ % at <5 cm/h
Calculated values	dew point, wind chill
Memory	8800 series of measurement / RS-232 interface
Sampling rate	adjustable: 1, 10, 15, 30 or 60 min (with 30 min, you can measure for over 180 days)
External sensors	up to 6 can be connected
Plug connection	connecting terminal plate
Display	graphical LCD, 2 lines
Power supply	4 x 1.5 V AA battery
Battery life	12 months
Operating conditions	-20 ... +70 °C
Dimensions / weight	300 x 215 x 300 mm / 2900 g

### INCLUDES

Weather station with 5 sensors, English manual (note: the weather station is delivered without a data cable and without software)

ITEM NO.	ITEM
K-WD-2700	weather station Watchdog

### OPTIONAL ACCESSORIES

K-WD-SPEC	professional diagnostic software with RS-232 data cable
K-WD-3660-75	25 m data cable for direct connection with PC (RS-232)
K-WD-3396TP	aluminium tripod

### ITEM NO.

### ITEM

K-WD-3667-06	soil temperature sensor, cable length 1.8 m
K-WD-3667-20	soil temperature sensor, cable length 6.1 m
K-WD-3670	radiation sensor
K-WD-3668	PAR sensor
K-WD-6450	soil moisture sensor
K-WD-3671	air pressure sensor
K-WD-3673	input cable for 0 ... 2.5 V signals
K-WD-3674	input cable for standard signals 4 ... 20 mA
K-WD-3664	extension cable 4.3 m

