

Data Logger / Air Flow Meter

CDL 210

CO₂ & Climate Data Logger

- measures and displays temperature and air humidity
- acoustic signal when pre-set CO₂ value is exceeded
- simultaneous indication of CO₂, temp. and humidity
- memory: 5300 series of measurem. / USB interface
- wide measurement range of CO₂ up to 2000 ppm



TOP
seller

TECHNICAL SPECIFICATIONS

Meas. range CO ₂	0 ... 2000 ppm / NDIR procedure
Accuracy / Resol.	50 ppm ±5 % / 1 ppm (0 ... 100 ppm)
Temperature	-10 ... +60 °C
Accuracy / Resol.	±0.6 °C / 0.1 °C
Air humidity	5 ... 95 %
Accuracy / Resol.	±3 % / 0.1 %
Display	all parameters simultaneously
Memory	5300 series of measurem., up to 16000 values; sampling rates 3 / 10 / 30 s / 1 / 3 / 10 / 30 min.; 1 / 3 / 4 h
Power supply	mains adaptor AC 5V / 0.5 A
Dimensions	120 x 100 x 110 mm

INCLUDES

Data logger CO₂, mains adaptor, data cable, PC software, instruction manual

ITEM NO.	ITEM
K-CDL 210	CO ₂ data logger

Note:

Manual calibration should be done on a clear day outside, e.g. on an exterior window sill where the level of CO₂ is approximately 400 ppm.

PCE-WL 1 / 2

Data Logger for Wind Velocity and Wind Direction

- plastic case IP 60 / sensor IP 54
- internal temperature sensor / internal real-time clock
- data saved on SD card as CSV file
- saves mean and maximum values
- battery life 1 year / RS-232 interface

PCE-WL 1



PCE-WL 2



TECHNICAL SPECIFICATIONS

PCE-WL 1 sensor	
Meas. range	0.8 ... 40 m/s
Accuracy	±0.5 m/s or ±5 % of reading
Limit	max. 60 m/s
Contact limit	10 VA, max. 42 VDC max. 0.4 A
Heater	max. 24 V DC, max. 1 A
Output	0 ... 100 Hz
Mounting	by means of mounting bracket
Protection class	IP 54
Dimens. / weight	Ø 134 x 160 mm / 300 g
PCE-WL 2 sensor - wind velocity	
Meas. range	1 ... 40 m/s
Sensor	1 dry reed contact / 2 magnets
Output	potential-free pulses
Resolution	typ. 2.3 Hz/ms ¹
Contact limit	max. 10 VA; 0.5 A; 42 VDC
Wind direction	
Meas. range	5° ... 355°
Sensor	potentiometer
Output	0 ... 1 KΩ, 5° open in the North
Temperature	
Operating cond.	-25 ... +60 °C (free of ice)
Connection	15 m cable LiYCY 6 x 0.25 mm ²
Dimensions	height: 418 mm / case: Ø 50 mm

Weight	1 kg
Pole mount	Ø 31 mm, depth: 26 mm
Protection class	IP 54
Wind logger	
Memory	SD/MMC card, 2 GB
Sampling rate	10 s, 1 min or 10 min
Inputs	1 x analogue, / 2 x digital
Interface	RS-232
Protection class	IP 65
Power supply	2 x 1.5 V C-type batteries
Operating conditions	-15 ... +50 °C
Dimensions / weight	160 x 80 x 55 mm / 450 g

INCLUDES

Wind logger, wind sensor (depending on model), SD memory card, batteries, instruction manual

ITEM NO.	ITEM
K-PCE-WL 1	logger velocity
K-PCE-WL 2	logger velocity + direction

OPTIONAL ACCESSORIES

K-PCE-WLD	display (models up to 2012)
K-PCE-WLD 06.12	display (models from 2012)
K-CAL-AM	calibration certificate

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



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 ³ /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 ³ /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 ³ /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 ³ /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

Temperature	
Meas. range	-15 ... +50 °C
Wind velocity	
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 ³ /s (air flow rate)
Air humidity	
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 ² (volume flow in m ³ /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
	RH: 0.1 %; air pressure: ---	RH: 0.1 %; air pressure: 1 hPa
Accuracy	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 Flow 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

PCE-PFM 2

Anemometer with Pitot Tube for High Wind Velocities

- direct indication of wind velocity, air pressure, air flow and temperature
- suitable for velocities up to 80 m/s
- memory capacity for 99 values per parameter
- Pitot tube included
- USB interface, USB cable and software



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seller

TECHNICAL SPECIFICATIONS

Meas. range	- pressure	±50 mbar	- flow	1 ... 80 m/s
	- volume flow	0 ... 99999 m ³ /min	- temperature	0 ... +50 °C
Resolution	- pressure	0.01 mbar	- flow	0.1 m/s
	- volume flow	0.01 ... 100 m ³ /min	- temperature	0.1 °C
Accuracy	- pressure	±0.3 % of reading	- flow	±2.5 % of rdg.
	- volume flow	±2.5 % of reading	- temperature	±1 °C
	Pitot tube	Pitot tube head: Ø 8 x 210 mm; length: 335 mm		
Internal memory	99 values per parameter			
Display	LC display with backlight			
Power supply	9 V block battery			
Operating conditions	0 ... 50 °C / <90 % RH			
Dimensions / weight	210 x 75 x 50 mm / 280 g			

INCLUDES

Pressure gauge, Pitot tube (335 x 210 x Ø 8 mm), connection hose, software, batteries, case, instruction manual

ITEM NO.	ITEM
K-PCE-PFM 2	pressure gauge set

OPTIONAL ACCESSORIES

K-CAL-AM	ISO calibration certificate (pressure only)
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PVM-620

Data Logger Anemometer for High Wind Velocities

- measures differential and static pressure -3.735 Pa ... +3.735 Pa
- calculates and indicates velocity via differential pressure (only in connection with a Pitot tube)
- direct indication of volume flow after entering dimensions of duct
- individual data memory for e. g. grid measurements in channels
- readings are saved along with measuring time



TECHNICAL SPECIFICATIONS

Measurement range	- pressure	±3735 Pa (37.35 mbar) ±28.0 mm Hg
	- flow	1.27 ... 78.7 m/s
Resolution	- pressure	1 Pa / 0.001 mm Hg
	- flow	0.1 m/s
Accuracy	- pressure	±1 % of reading
	- flow	±1.5 % at 10 m/s
Memory / sampling rate	12700 values / 1 s ... 1 h (adjustable)	
Display	LCD	
Power supply	4 x AA Mignon cells	
Operating conditions	+5 ... +45 °C	
Dimensions	178 x 84 x 44 mm	
Weight	270 g (device only)	

INCLUDES

Pressure gauge, software, data cable, calibration certificate, batteries, carrying case, instruction manual

ITEM NO.	ITEM
K-PVM-620	pressure gauge

OPTIONAL ACCESSORIES

K-CAL-PM	ISO calibration certificate (pressure only) for recalibration
K-SS-AZ	silicone tube, 2 m
K-SR-483	Pitot tube, 483 x 8 mm
K-SR-795	Pitot tube, 795 x 8 mm

Air Flow 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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seller**

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 we 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: ± 0.6 °C
 - cable: 1.8 m and 6.1 m available
- Solar radiation sensor
 - measurement range: 1 ... 1250 W/m²
 - accuracy: ± 5 %
 - cable: 1.8 m
- PAR sensor (photosynthetically active radiation)
 - measurement range: 0 ... 2500 $\mu\text{mol}/\text{m}^2/\text{s}$
 - accuracy: ± 5 %
 - cable: 1.8 m
- Soil moisture sensor
 - measurement range: 0 ... 100 %
 - accuracy: ± 2 %
 - cable: 1.8 m
- Air pressure sensor
 - meas. range: 660 ... 810 mmHg (880 ... 1080 mbar)
 - accuracy: ± 1.3 mmHg (± 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, ± 5 % wind direction: 0 ... 360 °, ± 7 °; temperature: -20 ... +70 °C, ± 0.6 °C RH: 20 ... 100 % RH, ± 3 % RH; precipitation: 6.5 cm/measuring period, ± 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

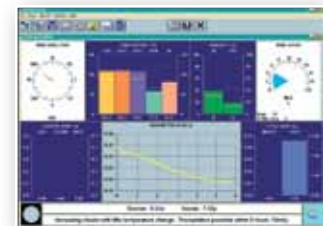
OPTIONAL ACCESSORIES

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



X Series

Cross Meter for Volume Flow $\leq 30\text{m/s}$

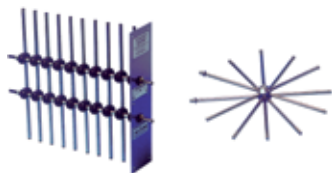
- enhanced pressure difference signal / easy installation
- high accuracy / low maintenance
- compatible with common pressure transducers
- applications: ventilation, climate and technology / retrofitting of existing equipment



AIRFLOW

TECHNICAL SPECIFICATIONS

Model	X8	X16
Pipe diameter	8 mm	16 mm
For ducts with diagonal	<700 mm	700 ... 1400 mm
Operating conditions	max. +80 °C	
Velocity	1.5 ... 30 m/s	
Accuracy	< $\pm 5\%$	



INCLUDES

Pressure pipes, clamping sleeves, flaps, support insertion hollow, sealing rings, angle pieces, manual

ITEM NO.	ITEM
K-X 8	volume flow test instrument X 8
K-X 16	volume flow test instrument X 16

Optionales Zubehör

K-PT-LE-1D	pressure transducer, 1 bar
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PCE-VR Series

Venturi Tube up to $\varnothing 355$ mm for Flow Measurement within Pipes

- measuring transducer (DS85) for remote transfer of the measuring signal optionally available
- 8 mm \varnothing connections
- available as sleeve or flange edition
- resilient construction made of grey PP
- easy to install and use
- high accuracy
- temperature range 0 ... +80 °C



Versions

Short

Nomin. \varnothing	Division
$\varnothing 160$	50 m ³ /h
$\varnothing 200$	50 m ³ /h
$\varnothing 250$	50 m ³ /h

Flange edition
PCE-VR-160KF
PCE-VR-200KF
PCE-VR-250KF

Sleeve edition
PCE-VR-160KM
PCE-VR-200KM
PCE-VR-250KM

Long

Nomin. \varnothing	Division
$\varnothing 110$	100 m ³ /h
$\varnothing 125$	100 m ³ /h
$\varnothing 140$	100 m ³ /h
$\varnothing 160$	100 m ³ /h
$\varnothing 180$	100 m ³ /h
$\varnothing 200$	100 m ³ /h
$\varnothing 225$	100 m ³ /h
$\varnothing 250$	100 m ³ /h
$\varnothing 280$	100 m ³ /h
$\varnothing 315$	100 m ³ /h
$\varnothing 355$	100 m ³ /h

Flange edition
PCE-VR-110LF
PCE-VR-125LF
PCE-VR-140LF
PCE-VR-160LF
PCE-VR-180LF
PCE-VR-200LF
PCE-VR-225LF
PCE-VR-250LF
PCE-VR-280LF
PCE-VR-315LF
PCE-VR-355LF

Sleeve edition
PCE-VR-110LM
PCE-VR-125LM
PCE-VR-140LM
PCE-VR-160LM
PCE-VR-180LM
PCE-VR-200LM
PCE-VR-225LM
PCE-VR-250LM
PCE-VR-280LM
PCE-VR-315LM
PCE-VR-355LM

