

PCE-IR 100 (HACCP)

Infrared / Contact Thermometer

- temperature measurement with and without contact, combined in a single device
- suitable for use in the food industry
- short response time / LED display
- min. / max. value hold function
- easy to clean due to high-grade protection IP 65



**TOP
seller**

TECHNICAL SPECIFICATIONS

IR range / resolution	-33 ... +220 °C / 0.1 °C
Accuracy	-33 °C ... 0 °C: ± 1.0 °C + 0.1 °C 0 °C ... +65 °C: ± 1.0 °C +65 °C ... +220 °C: ± 1.5 % of rdg.
Ratio / resp. time	3:1 / < 500 ms
Emissivity	adjustable 0.10 ... 1.00
Contact range./resol.	-55 ... +330 °C / 0.1 °C
Accuracy	-55 °C ... -5 °C: ± 1.0 °C -5 °C ... +65 °C: ± 0.5 °C +65 °C ... +330 °C: ± 1.0 % of rdg.
Power supply	2 x 1.5 V AAA batteries
Dimensions / weight	190 x 38 x 22 mm / 98 g

INCLUDES

Food thermometer, batteries, instruction manual

ITEM NO.	ITEM
K-PCE-IR 100	food thermometer

OPTIONAL ACCESSORIES

K-CAL-IR100	ISO calibration certificate
-------------	-----------------------------

 Only the IR sensor can be calibrated, not the probe)

PCE-TD 60

USB Temperature Data Logger

- internal sensor / works with lithium battery
- integrated display for up-to-date values
- internal memory of up to 32000 values
- sampling rates of between 1 s and 6 hrs
- timing of data logging can be pre-set
- programmable optical alarm



PCE

TECHNICAL SPECIFICATIONS

Measurement range	-40 °C ... +85 °C
Accuracy	± 0.6 °C (-20 ... +50 °C), ± 1.2 °C rest of ranger
Memory	32000 sets of data
Display	LCD 3 digits
Sampling rate	1 s ... 6 h
LED:	flashing green-red: measuring flashing red: below or above measurement range
Power supply	lithium battery 3.6 V, 1/2 AA
Operating conditions	0 ... +50 °C, < 80 % RH
Dimensions	135 x 28 mm, with cover cap

INCLUDES

USB data logger, battery, box, carrying strap, instruction manual

ITEM NO.	ITEM
K-PCE-TD 60	USB temperature data logger



PCE-HT 71N

USB Climate Meter for RH and Temp.

- 32000 values memory capacity / USB interface
- analysis software / dew point calculator
- adjustable alarms, real-time clock with date
- adjustable sampling rates (2 s - 24 hrs)
- long-life lithium battery
- LED status indication (including alarm)



PCE

TECHNICAL SPECIFICATIONS

Meas. range	0 ... 100 % RH / -40 ... +70 °C
Resolution	0.1 % RH / 0.1 °C
Accuracy	± 3 % RH / ± 1 °C
Memory	32000 readings (16000 each)
Sampling rate	adjustable 2 s, 5 s, 10 s ... 24 h
Start / stop / date	programmable (alarm as well)
Display	2 LED (logging / alarm)
Interface	USB
Dew point	can be calculated (accuracy ± 2 °C)
Power supply	3.6 V lithium battery
Operating conditions	-40 ... +70 °C / 0 ... 100 % RH
Dimensions/weight	102 x 30 mm / 25 g

INCLUDES

Data logger, wall mount, battery, software, instruction manual

ITEM NO.	ITEM
K-PCE-HT 71N	data logger



Climate Meter

PCE-TH 5

Hygrometer with Dew point / Wet Bulb

- temperature / humidity determination by internal sensors
- calculates dew point, wet bulb temperature, heat index values and WBGT (heat stress index)
- functions: HOLD, MIN / MAX and MEAN values
- alarm limit for heat index / WBGT
- operated by lithium battery / battery saving function



TECHNICAL SPECIFICATIONS

Temp. meas. range	-20 ... +50 °C
Resolution	0.1 °C
Accuracy	± 0.6 °C
Ambient hum. m. r.	0 ... 99.9 % RH
Resolution	0.1 % RH
Accuracy	± 3 % RH at +25 °C / 10 ... 90 %, otherwise ± 5 %
Power supply	3.0 V lithium battery, CR2032
Operating cond.	-20 ... +50 °C, <80 % RH
Dimensions	135 x 18 x 36.3 mm

INCLUDES

Thermohygrometer, battery, case, instruction manual

ITEM NO.	ITEM
K-PCE-TH 5	thermohygrometer

OPTIONAL ACCESSORIES

K-CAL-PCE-HT110	ISO calibration certificate
K-CAL-SET-RF	calibration set 33% / 75% RH

PCE-310

Psychrometer (Dew Point / ΔT)

- ambient humidity / temperature by internal sensor
- temperature sensor for walls and materials
- dual display for temperature and humidity
- dew point / wet bulb temperature
- differential temperature T1 - T2
- MIN / MAX / HOLD
- 60 seconds response time



TECHNICAL SPECIFICATIONS

Measurement range	Temperature	Relative hum.
(internal sensor)	-20 ... +50 °C	0...100 % RH
Wet bulb	-21.6 ... +50 °C	
Dew point	-78.7 ... +50 °C	
Temp. (ext. sensor)	-20 ... +70 °C	
Resolution	Temperature 0.1 °C	Relative hum. 0.1 %
Accuracy	Temperature ±1 °C	Relative hum. ± 3 %
Power supply	2 x 1.5 V AAA batteries	
Operating cond.	-20 ... +50 °C / 0 ... 100 % RH	
Dimensions / weight	25 x 50 x 180 mm / 130 g	

INCLUDES

Psychrometer, external sensor with 1.1 m cable, batteries, instruction manual

ITEM NO.	ITEM
K-PCE-310	psychrometer

OPTIONAL ACCESSORIES

K-PCE-310-TF	replacement temperature sensor
K-CAL-PCE-HT110	ISO calibration certificate
K-CAL-SET-RF	calibration set 33% / 75% RH

PCE-320

Psychrometer with IR Thermometer

- humidity / temperature of walls or products by internal, external or infrared sensor
- LCD dual display for temperature and humidity
- dew point and wet bulb
- HOLD, MIN, MAX
- 4 seconds response time



TECHNICAL SPECIFICATIONS

Meas. range	Temperature	Relative humidity
(internal sensor)	-20 ... +60 °C	10 ... 90 % RH
Wet bulb	-21.6 ... +60 °C	
Dew point	-68 ... +60 °C	
Temp. (ext. / IR)	-20 ... +750 °C	-50 ... +500 °C
Resolution	Temperature 0.1 °C	Relative humidity 0.1 %
Accuracy	Temperature ± 1.0 °C	Relative humidity ± 3.0 %
Temp. (ext. / IR)	± 1.0 % ± 1.0 °C ± 2.0 % / ± 2.0 °C	
Power supply	1 x 9 V battery	
Dimen. / weight	257 x 76 x 53 mm / 355 g	

INCLUDES

Psychrometer, external wire sensor, (max.+220 °C), software, PC cable, battery, instruction manual

ITEM NO.	ITEM
K-PCE-320	psychrometer

OPTIONAL ACCESSORIES

K-CAL-SET-RF	calibration set 33 % / 75 % RH
K-CAL-PCE-320	ISO certificate (RH / IR)



For other sensors see page 11

PCE-313 A

Professional Climate Meter with SD Card Memory / Data Logger

- measures temperature and humidity by internal sensor and temperature by K type thermocouple
- calculates the dew point and wet bulb temperature
- internal real-time memory via SD card (1 ... 16 GB)
- the stored data are saved directly to the SD card in Excel format
- 2 GB SD card and card reader included in the delivery
- optional software to transfer data to the PC in real time (software is not needed to analyse the stored data)
- PCE-313 S model includes sintered cap



TECHNICAL SPECIFICATIONS

Meas. range	RH: 5 ... 95 % / Temperature: internal sensor 0 ... +50 °C / K type -50 ... +1300 °C
Resolution	0.1 % RH / 0.1 °C
Accuracy	RH: ± 3 % at >70 % RH / ± 3 % of reading ± 1 % at <70 % RH Temperature (internal sensor): ± 0.8 °C / Temperature (type K): ± 0.4 % + 0.5 °C
Memory	SD card (1 ... 16 GB)
Measurement rate	1 ... 3600 s (adjustable)
Interface	RS-232
Display	LCD
Operating cond.	0 ... +50 °C, < 85 % relative humidity
Power supply	6 x 1.5 V batteries
Dimensions	177 x 68 x 45 mm
Weight	490 g

INCLUDES

Thermohygrometer, combined temperature and humidity sensor, SD memory card (2 GB), card reader, batteries, instruction manual

ITEM NO.	ITEM
K-PCE-313A	thermohygrometer

OPTIONAL ACCESSORIES

K-PCE-313 S	thermohygrometer / data logger (like PCE-313 A), with sintered cap
K-SOFT-LUT-B02	RS-232 data cable with software to transfer data in real time
K-CAL-PCE-HT110	ISO calibration certificate
K-CAL-SET-RF	calibration set 33% / 75% RH

PCE-G1 and PCE-G1A

Display for Temperature and Humidity

- visible from distances of up to 50 m
- clearly readable LED digits with a height of 100
- the measured temperature and humidity values are displayed in turns
- 4 ... 20 mA output / quick response time
- long-term stable sensor
- IP 54 protection



TECHNICAL SPECIFICATIONS

Meas. range	10 ... 95 % RH / 0 ... +60 °C
Resolution	1 % RH / 1 °C
Accuracy	± 2 % RH / ± 1 °C
Sensor	capacitive / Pt1000 / 1 m cable
Output	4 ... 20 mA
Response time	4 s
Display	LED 100 mm
Visibility	from approx. 50 m
Power supply	230 V / 50 ... 60 Hz
Dimensions	sensor: 50 x 70 x 20 mm display: 175 x 175 x 75 mm
Weight	1300 g

INCLUDES

Display, sensor for RH and temperature, mains cable, instruction manual

ITEM NO.	ITEM
K-PCE-G1	display
K-PCE-G1A	display with analogue output

OPTIONAL ACCESSORIES

K-CAL-PCE-G1	ISO calibration certificate
--------------	-----------------------------

UX100 Series

USB Data Logger with Large Display

- internal memory for 84650 measured values
- USB interface
- adjustable alarm limit
- one year battery life
- protection class IP50



TECHNICAL SPECIFICATIONS

Parameters	Temperature	Humidity (UX100-011 only)
Meas. range	-20 .. +70 °C	0 .. 95 % RH
Resolution	0.024 °C	0.05 % RH
Accuracy	±0.21 °C	±2.5 %
Response time	8 min	11 s
Drift (per year)	<0.1 °C	<1 %
Memory	84650 readings	
Sampling rate	1 s ... 18 h	
Interface	USB	
Power supply	3 V lithium battery (batt. life 1 year)	
Oper. cond.	-20...+70 °C / 15...95 % RH	
Dimens. / weight	approx. 37 x 85 x 23mm/approx 30g	

INCLUDES

USB logger UX100-001 (temperature) or UX100-011 (temperature and humidity), battery, instruction manual

ITEM NO.	ITEM
K-UX100-001	temperature logger
K-UX100-011	temperature / RH logger

OPTIONAL ACCESSORIES

BHW-PRO-CD	HoboWare software + cable
K-CAL-PCE-HT110	ISO calibration certificate

PCE-HT110

2-Channel Temp. and RH Logger

- internal data memory via 2 GB SD card (max. 16 GB SD card possible)
- data are saved directly to the SD card in Excel format
- adjustable real time clock with date
- large LC display / adjustable sampling rate



TECHNICAL SPECIFICATIONS

Meas. range	0 ... +50 °C / 10 ... 90 % RH
Resolution	0.1 °C / 0.1 % RH
Accuracy	±0.8 °C / ±4 % RH
Sampling rate	5 s, 30 s, 1 min, 2 min, 5 min, 10 min or auto. when change of ±1 °C or ±1 % RH occurs
Functions	START, STOP, adjustable date
Memory	depending on memory card, 2 GB card included
Power supply	6 x 1.5 V (AAA) batteries / 9 V network adaptor (optional)
Operating cond.	0 ... +50 °C, 0 ... 90 % RH
Dimens. / weight	132 x 80 x 32 mm / 282 g

INCLUDES

Data logger, 2 GB SD card, card reader, batteries, wall mount, instruction manual

ITEM NO.	ITEM
K-PCE-HT110	data logger

OPTIONAL ACCESSORIES

K-NET-LUT	mains adaptor
K-CAL-PCE-HT110	calibration certificate

PCE-THB 40

3 Channels / Temp., RH, B. Pressure

- measures and records temperature, humidity and barometric pressure
- internal memory memory via 2 GB SD card (max. 16 GB)
- selectable pressure units: hPa, mmHg and inHg
- large LC display / adjustable sampling rate



TECHNICAL SPECIFICATIONS

Measurement range	
- Barom. pressure	10 ... 1100 hPa (mbar)
- Temperature	0 ... +50 °C
- Relative humidity	10 ... 90 % RH
Resolution	
- Barom. pressure	0.1 hPa at 1000 hPa, otherw. 1hPa
- Temperature	0.1 °C
- Relative humidity	0.1 % RH
Accuracy	
- Barom. pressure	±2hPa at<1000hPa, otherw. ±3hPa
- Temperature	±0.8 °C
- Relative humidity	±4 % of meas. value ±1 % RH
All other characteristics are the same as PCE-HT 110	

INCLUDES

Data logger, 2 GB SD card, card reader, batteries, wall mount, instruction manual

ITEM NO.	ITEM
K-PCE-THB 40	data logger

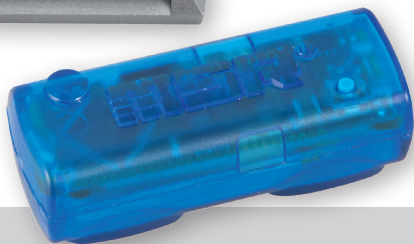
OPTIONAL ACCESSORIES

K-NET-LUT	mains adaptor
K-CAL-PCE-THB	calibration certificate

MSR145 Series

High-Quality Mini Long-Term Climate Meter for Temperature, RH, Air Pressure, Light, Acceleration in Grammes

- for temperature, relative humidity with integrated temperature, pressure (e. g. altimeter, water column, barometer), light and 3-axes acceleration
- real-time clock with date / adjustable sampling rate / memory capacity for 2.000.000 values, optional micro SD card für 1 billion values
- evaluation software
- marker function or start / stop via internal key
- Li-Ion rechargeable battery, status indication via LEDs
- norm: EU directive RoHS / WEEE
- external sensors available in our online shop



TECHNICAL SPECIFICATIONS (INTEGR. SENSORS)

Temperature	
Meas. range	-20 ... +65 °C
Accuracy	±0.5 °C (at -10 ... +65 °C)
	±2 °C (at -55 ... +125 °C)
Sampling rate	1/s ... every 12 h
Relative hum. with integr. temperature -20 ... +65 °C	
Meas. range	0 ... 100 % RH
Accuracy	±2 % RH (10 ... 85 %, 0 ... +40 °C)
	±4 % RH (85 ... 95 %, 0 ... +40 °C)
Sampling rate	1/s ... 12 every h
Air pressure with integr. temperature -20 ... +65 °C	
Meas. range	0 ... 2.000 mbar absolute
	0 ... 14 bar absolute (external)
Accuracy	±2.5 mbar (at 750 ... 1.100 mbar abs., +25 °C)
	±50 mbar (at 1 ... 10 bar abs., +25 °C)
Sampling rate	10/s ... every 12 h
3-axes acceler. with integr. temp. -20 ... +65 °C	
Meas. range	±15 g (position)
Accuracy	±0.15 g (+25 °C)
Sampling rate	50/s ... every 12 h

Light	
Meas. range	0 ... 65.000 lx max. sensitivity of 500 nm
Sampling rate	1/s ... every 12 h
The following sensors are only available as ext. Thermocouple connection for K type (without sensor) not available with temperature sensor	
Meas. range	-250 ... +1.200 °C (1 or 4 times)
Sampling rate	1/s ... every 12 h
Liquid pressure with integr. temp. -20 ... +85 °C	
Meas. range	0 ... 3.000 mbar absolute
	0 ... 30 bar absolute
Accuracy	±30 mbar
	±300 mbar
Sampling rate	20/s ... every 12 h
Materials in contact with media: - stainless steel AISI 316L (DIN 1.4404 / 1.4435) - o-rings: Viton® 70° Sh	
Analoge inputs 2 or 4 inputs, 0 ... 3.0 V, 12 Bit resolution; further input config. available in our online shop	
Sampling rate	50/s ... every 12 h

GENERAL DATA

Memory	2.000.000 readings, with optional SD card, extendable to 1 billion
Interface	USB
Software	setup-/ reader-/ viewer-/ online software (Windows 2000 / XP / Vista / 7)
LEDs	blue: data recording, red: alarm, yellow: battery charging level indication
Protection cl.	standard IP 60 / waterproof IP 67
Power supply	lithium polymer rechargeable battery 260 mAh or 800 mAh
	-20 ... +65 °C / 10 ... 95 % RF
Dimensions	width: 52 ... 72 mm; height: 14 ... 23 mm; depth: 18 ... 39 mm (dep. on model)
Weight	approx. 18 ... 64 g (dep. on model)

INCLUDES

Data logger, software, USB cable, manual

ITEM NO.	ITEM
----------	------

different models can be configured in our online shop
www.pce-instrument.com/english

OPTIONAL ACCESSORIES

K-B47002	charging station for up to 7 loggers
----------	--------------------------------------

PT-DPM

Dew Point Meter for Identifying Critical Climatological Conditions in Surface Coatings

- two models / large display (rotatable 180 °) / interchangeable probe head
- 6 measurement parameters / internal memory / Automatic Log mode / various display languages
- norms: ISO 8502-4 / BS 7079-B4 / ASTM D3276-05 / NSTM 009-32 / IMO PSPC / SSPC-PA7



- Probe head with a separate surface temperature probe:**
- includes integrated air temperature / humidity probe and K type plug
 - magnetic surface temperature probe with armoured cable and locking to prevent unintentional uncoupling from the instrument during unsupervised operation
 - includes a magnetic mount to fix the dew point meter to steel structures
 - compatible with other K type temperature probes



TECHNICAL SPECIFICATIONS

	Standard (PT-DPM1)	Advance (PT-DPM3)
- LC display	Monochrome	Colour
- Memory capacity	2500 in one group	20000 in up to 1000 groups up to 8 months
- Battery life of rechargeable battery	50 hours	
- Auto-Log mode for 5 parameters in user-defined time intervals . Works with battery or continuously via USB without supervision	included	included
- Batch annotation - to create descriptive names and enter the batch notes directly to the device	not included	included
- Stream data logging via USB or Bluetooth in fixed Auto Log intervals, ideal for remote supervision	not included	included
- Trend charts, measurement values in real time	not included	included
- user-defineable limit values for all parameters, with acoustic and visual alarms	not included	included
- WiFi technology for synchronisation with PosiTector.net, download of software updates and connection with mobile devices for increased performance (available in Appstore)	not included	included
- Wireless Bluetooth technology for data transfer to PC or portable printer	not included	included
- Online help, real-time images, charts and batch notes	not included	included

Parameter	Range / Accuracy / Resolution
Surface temp.	-40 ... +80 °C / ±0.5 °C / 0.1 °C
Air temperature	+40 ... +190 °C / ±1.5 °C / 0.1 °C
Relative hum.	-40 ... +80 °C / ±0.5 °C / 0.1 °C
Operating cond.	0 ... 100 % / ±3 % / 0.1 %
Power supply	-40 ... +80 °C
	3 x 1.5 V AAA Alkaline batteries
Dimensions	178 x 64 x 31 mm
Weight	185 g without batteries

INCLUDES

Dew point meter, probe head (int. surface) USB cable, probe protection cap, protective holster, batteries, case, NIST calibration certificate (ISO equivalent), instruction manual

ITEM NO.	ITEM
K-PT-DPM1-E	standard dew point meter
K-PT-DPM3-E	advance dew point meter

OPTIONAL ACCESSORIES

K-PRBDPM-B	replacement probe head
------------	------------------------

TA-140

Wireless Logger for Temperature and Humidity

- displays current value and Max-Min-Avg
- radio-controlled clock / Hi-Lo-alarm adjustable
- memory for 50000 values / up to 8 sensors
- transfer to PC per wireless USB transceiver
- reach of up to 100 metres (free field)
- for quality assurance in climate control



TECHNICAL SPECIFICATIONS

	Meas. range / Resol. / Accuracy
Temperature	-20 ... +60 °C / 0.1 °C / ±1 °C
Air humidity	1 ... 99 % RH / 1 % RH / ±3 % RH (35 ... 75 % RH), otherw. ±5 % RH
Sampling rate	temp. / RH every 15 seconds
Wireless s. rate	every 10 seconds
Transmitters	max. 8 / 100 m (free field)
Memory	max. 50000
Outputs	2 x switch outp. 24 VDC / 400 mA)
Power supply	3 x 1.5 V AA Batterien
Dimensions / weight	137 x 98 x 26 mm / 430 g

INCLUDES

Wireless data logger, 3 x batteries, USB dongle, software, instruction manual

ITEM NO.	ITEM
K-TA-140	wireless data logger für °C / RH

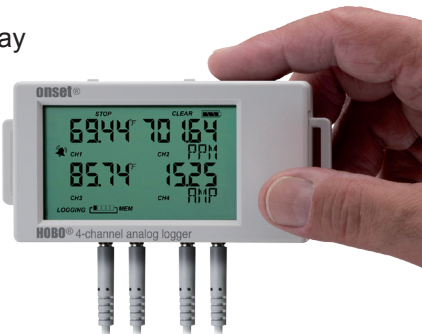
OPTIONAL ACCESSORIES

K-TA-140-T/RH	transmitter for temp. / humidity
K-TA-140-T	transmitter for temperature

UX120-006M

4-Channel Data Logger with Large LC Display

- 4 channels for connecting to various external sensors
- internal memory for 1.9 million readings
- large LC display
- USB interface
- 16 bit resolution
- 1 year battery life



TECHNICAL SPECIFICATIONS

Measurement range depending on meas. cable		
Meas. cable	Meas. range	Resolution
CABLE-4-20MA	0...20 mA	0.3 µA
CABLE-2.5-STEREO	0...2.5 V	40 µV
CABLE-ADAP5	0...5 V	80 µV
CABLE-ADAP10	0...10 V	160 µV
CABLE-ADAP24	0...24 V	384 µV
Sampling rate	1 s ... 18 h, adjustable	
Recording modes	normal, flash, statistics	
Recording stop	when memory full, never (ring memory, overwriting), date / time, key stroke	
Accuracy (time)	±1 minute/month (at 25 °C)	
Memory	1.9 million readings	
Display	LCD	
Power supply	2 x AAA batteries	
Battery life	1 year	
Operating cond.	-20 .. +70 °C / 0 .. 95 % RH	
Dimensions	108 x 54 x 25 mm	
Weight	108 g	

INCLUDES

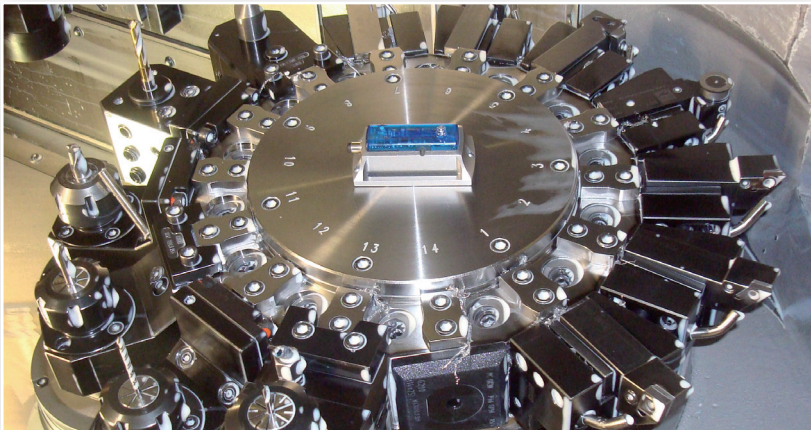
4-channel data logger, battery, instruction manual

ITEM NO.	ITEM
K-UX120-006M	4-channel data logger
OPTIONAL ACCESSORIES	
K-HOBOware Pro	software (Windows/Mac)
K-TMC1-HD	temp. sensor cable 0.3 m
K-TMC6-HD	temp. sensor cable 1.8 m
K-TMC20-HD	temp. sensor cable 6 m
K-TMC50-HD	temp. sensor cable 15 m
K-TMC6-HC	st. steel temperature probe
K-TMC6-HE	flat temperature sensor
K-CABLE-4-20MA	cable 4...20 mA, 45 cm
K-CABLE-2.5-ST	cable 0...2.5 V, 180 cm
K-CABLE-ADAP5	cable 0...5 V, 180 cm
K-CABLE-ADAP10	cable 0...10 V, 190 cm
K-CABLE-ADAP24	cable 0...24 V, 190 cm
K-CTV-A	sensor ACA 0...20 A
K-CTV-B	sensor ACA 0...50 A
K-CTV-C	sensor ACA 0...100 A
K-CTV-D	sensor ACA 0...200 A
K-CTV-E	sensor ACA 0...600 A

MSR165 Series

3-Axis Acceleration Sensor for Long-Term Recording (Additional Sensors Optionally Available)

- 3-axis acceleration with lithium polymer rechargeable battery for extra-long life
- sensors for temperature, relative humidity, light and absolute pressure are available optionally
- marker function or start / stop via internal key
- USB interface for PC / software for data analysis via PC or laptop are included in the delivery content
- adjustable real-time clock with date / adjustable sampling rate
- norms: EU RoHS / WEEE
- the datalogger can be configured in our online shop:
www.pce-instruments.com/english



TECHNICAL SPECIFICATIONS (INTEGR. SENSORS)

3-axis acceleration (13 bit resolution)	
With integr. temp.	-20 ... +65 °C
Meas. range	±15 g
Accuracy	±0.15 g (at +25 °C)
Sampling rate	up to 1600 /s (±15 %)
Temperature	
Meas. range	-20 ... +65 °C
Accuracy	±0.5 °C (at -10 ... +65 °C)
	±2 °C (at -55 ... +125 °C)
Sampling rate	1/s ... every 12 h
Relative humidity	
With integr. temp.	-20 ... +65 °C
Meas. range	0 ... 100 % RH
Accuracy	±2 % RH (at 10 ... 85 %, 0 ... +40 °C)
	±4 % RH (at 85 ... 95 %, 0 ... +40 °C)
Sampling rate	1/s ... every 12 h
Air pressure	
With integr. temp.	-20 ... +65 °C
Meas. range	0 ... 2000 mbar absolute
	0 ... 14 bar absolute
Accuracy	±2.5 mbar (at 750 ... 1100 mbar abs, +25 °C)
	±50 mbar (1 ... 10 bar abs., +25 °C)
Sampling rate	10/s ... every 12 h

Light	
Meas. range	0 ... 65000
Max. sensitivity	500 nm
Sampling rate	1/s ... every 12 h
Analogue inputs	
4 inputs, 0 ... 3.0 V, 12 bit resolution; other input configurations available in online shop;	
light sensor not available, max. 2 ext. sensors possible	
Interval	50/s ... every 12 h
General details	
Memory	2,000,000 values, with optional SD card increase to 1,000,000,000
Switch	markings and start / stop of measurement
Interface	USB
Software	setup / reader / viewer / online software (Windows 2000/XP/Vista/7)
LEDs	blue: data logging; red: alarm; yellow: battery level indication
Power supply	lith. poly. rechargeable batt. 800 mAh
Operating cond.	-20 ... +65 °C / 10 ... 95 % RH
Dimens. / weight	39 x 23 x 72 mm / approx. 69 g
Protection class	waterproof IP 67

INCLUDES

3-axis acceleration data logger, software, interface cable, instruction manual

ITEM NO.	ITEM
different models can be configured in online shop www.pce-instruments.com/english	

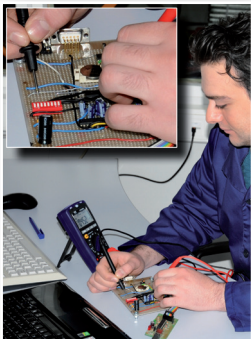
⚠ Note: the optional accessories must be specified when ordering the 3-axis data logger as the device must be configured according to your requirements directly at the factory.



PCE-EM 886

Multimeter (5 in 1)

- measures sound, light, external temperature (via K-type thermocouple), ambient temperature and humidity
- 3 4/5- digit LC display with backlight
- optional infrared temperature adaptor for non-contacting temperature measurement
- integrated auto-ranging multimeter



PCE-222

4-in-1 Meter with Internal Sensors

- 4-in-1 device that measures light, sound, relative humidity and temperature
- large LC display and function display
- light: up to 40000 lux / temperature: -20 ... +750 °C
- humidity: 35 ... 95 % RH / sound: up to 130 dB
- Automatic Power Off



TECHNICAL SPECIFICATIONS

Sound level meter	
Measurement range	35 ... 100 dB
Resolution	0.1 dB
Accuracy	±5dB (at 94, 1kHz sinusoidal sig.)
Frequency range	30 Hz ...10 kHz
Frequency weighting	C
Time evaluation	FAST
Microphone	electrical capacitor microphone
Light meter	
Measurement range	4000 / 40000 lux (lux range of 20000 = display x10)
Overload	"OL" (you must select a meas. range which is 1 digit higher)
Accuracy	±5 % of meas. value + 10 digits
Reproducibility	±2 %
Sensor	silicon photodiode with filter
Moisture meter	
Measurement range	33 ... 99 % RH
Resolution	1 %
Accuracy	±3 % of meas. value +5 % RH
Thermometer	
Measurement range	0 ... +50 °C
Resolution	0.1 °C
Accuracy	±3 % of meas. value ±3 °C

K type thermocouple

Measurement range	-20 ... +400 °C / -20 ... +1,300 °C
Resolution	0.1 °C / 1 °C
Accuracy	±3 % meas. value +3 °C
General	
Display	LCD, 3 4/5 digits
Overload	"OL"
Sampling rate	approx. 3 times per second
Accuracy	±5 °C (at +23 °C / <70 % RH)
Power supply	1 x 9 V battery
Operating cond.	0 ... +40 °C / <70 % RH
Dimensions of meter	170 x 78 x 48 mm
Weight	335 g

INCLUDES

Multimeter, K type temperature sensor, test leads, 9V block battery, instruction manual

ITEM NO. ITEM

K-PCE-EM 886 multimeter

OPTIONAL ACCESSORIES

K-IR-82 infrared temperature adaptor

TECHNICAL SPECIFICATIONS

Light meas. range	0.1 ... 40,000 lux
Resol. / accuracy	0.1 lux; ±5 % +10 dgt.
Temp. meas. range	-20 ... +40 °C (internal)
Resol. / accuracy	0.1 °C; ±3 % +3 dgt.
Temp. meas. range	-20 ... +750 °C (external)
Resol. / accuracy	1 °C; ±3 % +1 dgt.
Humidity m. range	35 ... 95 % RH
Resol. / accuracy	0.1 % RH ±5 % RH
Sound meas. range	35 ... 130 dB
Resol. / accuracy	0.5 dB; ±3.5 dB
Power supply	1 x 9V battery
Dimensions / weight	121 x 60 x 40 mm / 280 g

INCLUDES

4-in-1 meter, holster, test leads, K type temp. sensor, software, RS-232 cable, battery, instruction manual

ITEM NO. ITEM

K-PCE-222 4-in-1 multimeter

OPTIONAL ACCESSORIES

K-RS232-USB RS-232 to USB adaptor

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
----------	-----------------------------

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
----------	-----------------------------

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 ft³/min (calculated on the basis of velocity and surface after entering the cross section)
Resolution	0.01 m/s; 0.1 °C; 0.1 ft³/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
----------	-----------------------------

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 m³/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 m³/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 m³/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 RH: 0.1 %; air pressure: ---	m/s, km/h: 0.1; temp.: 0.1 °C RH: 0.1 %; air pressure: 1 hPa
Accuracy	wind veloc. ±3%rdg.; temp.: ±1 °C RH ±3 %; DP: ±2 °C	wind veloc. ±3 %rdg.; temp.: ±1 °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

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



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 $\varnothing$ 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

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



TOP
seller

TECHNICAL SPECIFICATIONS

Measurement range / accuracy	wind velocity: 0 ... 281 km/h, $\pm 5\%$ wind direction: 0 ... 360°, $\pm 7^\circ$; temperature: -20 ... +70 °C, $\pm 0.6^\circ\text{C}$ 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

Watchdog-Sensors

Sensoren for Different Parameters

- Soil temperature sensor
- measurement range: -30 ... +100 °C
 - accuracy: $\pm 0.6^\circ\text{C}$
 - cable: 1.8 m and 6.1 m available
- Solar radiation sensor
- measurement range: 1 ... 1250 W/m²
 - 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: $\pm 1.3\text{ mmHg}$ ($\pm 1.8\text{ mbar}$)
 - cable: 30 cm
- Standard signal input cable
- input range: 0 ... 2.5 V or 4 ... 20 mA
 - length: 1.8 m

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

