

PCE-MHT 1

Pocket Thermohygrometer

- MAX / MIN functions
- temperature and humidity display
- Automatic Power Off
- automatic backlight
- indicative measurement
- quick response time / battery level indication



TECHNICAL SPECIFICATIONS

Meas. range	0 ... 100 % RH / -20 ... +60 °C
Resolution	0.1 % RH / 0.1 °C
Accuracy	± 3.5 % RH (20 ... 80 % RH) ± 5 % RH (< 20 / > 80 % RH) ± 1 °C (0 ... +40 °C) ± 2 °C (< 0 / > +40 °C)
Response % RH	approx. 30 s (90 % of final value)
Display	dual LCD, backlight
Auto Power Off	after 30 min (can be deactivated)
Power supply	1 x 9 V battery
Operating conditions	0 ... +50 °C, < 80 % RH
Dimensions	55 x 32 x 10 mm
Weight	135 g

INCLUDES

Pocket thermohygrometer, battery, instruction manual

ITEM NO.	ITEM
K-PCE-MHT 1	pocket thermohygrometer

OPTIONAL ACCESSORIES

K-CAL-SET-RF	calibration set 33% / 75% RH
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PCE-HT 71N

Thermohygrometer USB

- 32 K memory / USB interface
- software / dew point calculator
- adjustable alarms, real-time clock with date
- adjustable saving rate (2 s ... 24 h)
- long-life lithium battery
- LED status display (including alarm)



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TECHNICAL SPECIFICATIONS

Meas. range	0 ... 100 % RH / -40 ... +70 °C
Resolution	0.1 % RH / 0.1 °C
Accuracy	± 3 % RH / ± 1 °C
Sensors	internal (humidity and temperature)
Memory	max. 32000 meas. (16000 each)
Saving rate	adjustable, 2 s, 5 s, 10 s ... 24 h
Start, stop, date	adjustable (incl. alarm)
Display	2 LEDs (rec. / alarm)
Interface	USB
Dew point	calculated (accuracy ± 2 °C)
Power supply	3.6 V lithium battery
Operating cond.	-40 ... +70 °C / 0 ... 100 % RH
Dimens. / Weight	102 x 30 mm / 25 g

INCLUDES

USB thermohygrometer, wall mount, battery, software, instruction manual

ITEM NO.	ITEM
K-PCE-HT 71N	USB thermohygrometer



PCE-555

Pocket Thermohygrometer

- displays relative humidity and temperature at the same time
- calculates dew point and wet bulb
- PEAK HOLD function
- MIN and MAX record functions
- high accuracy



TECHNICAL SPECIFICATIONS

Meas. range	0 ... 100 % RH / -30 ... +100 °C
Resolution	0.01 % RH / 0.01 °C
Accuracy	± 2.0 % RH at 25°C ± 0.5 °C at 25°C
Response time	approx. 10 sec. (90 % at 25 °C)
Functions	MIN- / MAX- / PEAK HOLD
Power supply	1 x 9 V battery
Display	dual LCD, 4.5 digits
Operating cond.	0 ... 40 °C / < 80 % RH
Dimensions	228 x 55 x 33 mm
Weight	195 g

INCLUDES

Thermohygrometer, carrying case, battery, instruction manual

ITEM NO.	ITEM
K-PCE-555	thermohygrometer

OPTIONAL ACCESSORIES

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

Dew Point Thermometer

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	Relative hum.
	0.1 °C	0.1 %
Accuracy	Temperature	Relative hum.
	±1 °C	± 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

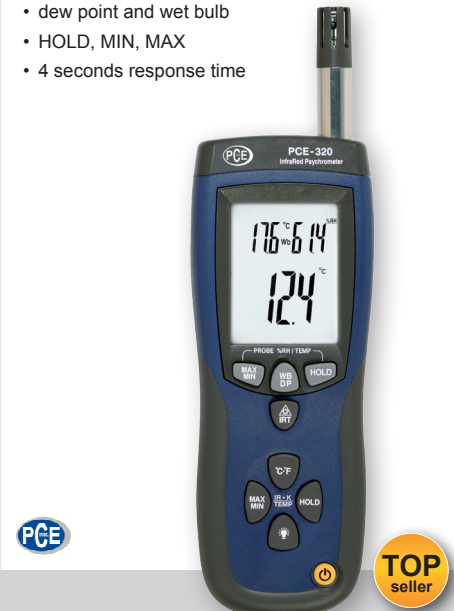
OPTIONAL ACCESSORIES

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	Relative humidity
	0.1 °C	0.1 %
Accuracy	Temperature	Relative humidity
	± 1.0 °C	± 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

Dew Point Thermometer

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 °C + 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
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Dew Point Thermometer

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



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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 +40 ... +190 °C / ±1.5 °C / 0.1 °C
Air temperature	-40 ... +80 °C / ±0.5 °C / 0.1 °C
Relative hum.	0 ... 100 % / ±3 % / 0.1 %
Operating cond.	-40 ... +80 °C
Power supply	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
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Dew Point Thermometer

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



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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

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

Sensors 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

