



In this chapter you can find different types of humidity and moisture measuring devices. It is often necessary to adhere to a certain humidity content according to DIN specifications in offices or industrially used rooms. There is a wide range of humidity and moisture measuring devices offered online. Therefore, you will be able to find the best device that suits your needs in order to determine relative humidity or absolute moisture comfortably and with great accuracy, without having to perform a Darr test.

Our humidity and moisture measuring devices are delivered with calibration accessories, either as standard or optionally. We also offer humidity and moisture devices with memory and software to process the values obtained. This means that you can transfer your values to your PC easily for later analysis.

Our engineers and technicians can be consulted and will advise you on or humidity and moisture measuring devices and on all other products we offer.

## PCE-MHT 1

### Pocket Thermohygrometer

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



## 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)



## 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 / -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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#### 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



#### 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

## 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 (internal sensor)	Temperature -20 ... +50 °C	Relative hum. 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 (internal sensor)	Temperature -20 ... +60 °C	Relative humidity 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 °C ± 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 Thermohygrometer 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
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## RH5

### Thermohygrometer for Paper Stacks

- measures relative humidity and temperature
- non-destructive measurement method
- memory capacity for 10000 values
- dew point from -55 to +60 °C
- PC interface



#### TECHNICAL SPECIFICATIONS

Meas. range	0 ... 100 % RH / -10 ... +60 °C
Resolution	0.1 % RH / 0.1 °C
Accuracy	± 1.5 % RH / ± 0.4 °C
Dew point	-55 ... +60 °C
Response time	< 10 s
Memory	10000 measured values
Interface	USB
Display	graphical display
Power supply	4 x AA 1.5 V batteries
Dimensions	case 145 x 63 x 29 mm sensor 295 mm
Weight	285 g

#### INCLUDES

Thermohygrometer, wooden box, instruction manual

ITEM NO.	ITEM
K-RH5	thermohygrometer

#### OPTIONAL ACCESSORIES

K-RH5-10072	calibration device
K-RH5-10352	calibration set 50 %, 5 pieces
K-RH5-12278	software with USB adaptor
K-RH5-11131	ISO calibration certificate

## GMK 100

### Capacitive Material Moisture Meter

- non-destructive measuring method
- moisture displayed in percentage
- moisture evaluated on 6 levels
- acoustic and visual moisture alarm
- 2 measurement depths selectable



#### TECHNICAL SPECIFICATIONS

Meas. depth	10 mm and 25 mm
Moisture eval.	visual: moisture on 6 levels WET until DRY acoustic signal
Charact. curves	18 characteristic curves for wood and common construction materials
Functions	Automatic Power Off, HOLD
Display	char. curves, meas. value (backlight)
Power supply	9 V battery
Case	ABS break-proof / IP65
Operating cond.	-25 ... +50 °C
Dimen. / weight	106 x 67 x 30 mm, approx. / 145 g

#### INCLUDES

Capacitive material moisture meter, 9 V battery, instruction manual

ITEM NO.	ITEM
K-GMK 100	material moisture meter

#### OPTIONAL ACCESSORIES

K-PW 25	testing block
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## BLCompact RH-T Flex

### Equilibrium Moisture Content Meter

- flexible tube sensor available in 2 lengths (Ø 6.5 mm)
- wet bulb temperature, dew point, water activity
- wood moisture balance
- MIN, MAX and HOLD functions / 3 line LC display
- Isorption isotherm for hard and soft wood as well as for 10 different construction materials



#### TECHNICAL SPECIFICATIONS

	Meas. range / accuracy
Humidity	5 % ... 98 % / 0.1 %
Temperature	-40 °C ... +80 °C / 0.1 °C
Response time	<2 seconds
Memory	last 5 measured values
Power supply	9 V battery
Operating cond.	0 ... +50 °C
Display	3 lines
Dimensions	180 x 50 x 30 mm
Short sens.(12045)	250 mm / 6.5 mm
Long sens.(12046)	350 mm / 6.5 mm
Weight	approx. 320 g

#### INCLUDES

Equilibrium moisture content meter, sensor (one of two models), battery, box, instruction manual

ITEM NO.	ITEM
K-BL Compact RH-T flex	sensor 250 mm
K-BL Compact RH-T flex-L	sensor 350 mm



The telescopic sensor tip allows access to cracks and crevices which are hard to reach.

## Klimagriff®

### Klimagriff® Window Mould Protector

- 3 LEDs indicate: close window, heat / open window
- acoustic signal (can be deactivated)
- determines ambient temperature at the window (or coldest corner of the room), hum. / window position
- all data saved for 2 years and available to download via mini USB port
- softw. gives ventilation / heating recommendations



#### TECHNICAL SPECIFICATIONS

Meas. range	-5 ... +50 °C
Accuracy	± 0.3 °C temperature ± 5 % RH ± 5 ° window position
Electronics	ring memory / real time clock ±15 minutes per year / RoHS compliant
Connection	mini USB interface / touch keys for menu navigation
Display	LCD
Power supply	2 x 1.5 V AA battery; 2 year life
Hole spacing	43 mm for window fittings (DIN 18267:2005-01)

#### INCLUDES

Mould protector, batteries, screws, square extension according to DIN 18267:2005-01, instruction manual

ITEM NO.	ITEM
Klimagriff	mould protector

- ⚠ The handle is not included in the delivery. The original handle of the window can be used.

## BL Compact TF2

### Rel. Humidity / Abs. Moisture Meter

- calculates dew point temperature
- automatically calculates wood moisture balance
- USB interface for data transmission
- memory for last 5 values
- MIN, MAX and HOLD functions
- 3-line LC display



#### TECHNICAL SPECIFICATIONS

	Measurement range / resolution
Temperature	-20 °C ... +80 °C / 1 °C
Humidity	0 % ... 100 % / 0.1 %
Accuracy	Temp. ± 0.3 °C (-10 °C ... +60 °C) Humidity ± 2 % RH
Display	3-line LCD
Response time	<2 seconds
Storage conditions	0 ... +50 °C (short t. -10 ... +60 °C)
Applicable types	6LR61 type and / or 6F22 type
Power supply	9 V battery
Dimensions	180 x 50 x 30 mm
Weight	310 g

#### INCLUDES

Humidity / moisture meter, battery, plastic box, instruction manual

ITEM NO.	ITEM
K-BL Compact TF2	humidity / moisture meter



## PCE-PMI 1

### Material Moisture Meter

- non-destructive measurement of surface
- penetration depth 20 ... 40 mm
- LC display with backlight
- measures on the basis of electrical resistance of material
- Automatic Power Off function



#### TECHNICAL SPECIFICATIONS

Meas. range	0 ... 100 digits
Resolution	1 digit
Penetration depth	20 ... 40 mm
Meas. method	capacitive (electrical resistance)
Measurement	non-destructive
Display	LCD
Functions	MIN, MAX, HOLD, Auto Power Off (batt. saving, can be deactivated)
Electrode	metallic spheroid
Power supply	9 V battery
Dimensions	180 x 45 x 35 mm
Weight	180 g

#### INCLUDES

Material moisture meter, bag, battery, instruction manual

ITEM NO.	ITEM
K-PCE-PMI 1	material moisture meter



## BL Compact B

Building Moisture Indicator (% weight / % CM)

- 7 characteristic curves for materials / 2 characteristic curves for insulation materials
- MIN, MAX and HOLD functions/ acoustic alarm
- automatic calibration
- Automatic Power Off



### TECHNICAL SPECIFICATIONS

	Measurement range / resolution
Digits	0 ... 100 / 1
Building hum.	0.4 ... 6.0 % weight / 0.1 %
Wood moisture	tendency indication / 3 levels
Display	3 lines
Response time	<2 seconds
Power supply	9 V battery
Operating cond.	0 ... +50 °C
	-10 ... +60 °C (short time)
Applicable types	6LR61 type and / or 6F22 type
Dimensions	190 x 50 x 30 mm
Weight	approx. 180 g

### INCLUDES

Building moisture indicator, battery, plastic box, instruction manual

ITEM NO.	ITEM
K-BL Compact B	building moisture indicator



## PCE-WP21

Moisture Meter for Concrete and Screed

- selectable types of concrete (light / heavy)
- no need to prepare sample
- 3-digit LC display
- can be used on-site easily
- battery level indication



### TECHNICAL SPECIFICATIONS

Meas. range	1 ... 8 % absolute humidity
Resolution	0.1 %
Accuracy	±0.7 %
Meas. type	non-destructive
Meas. method	high-frequency measurement method
Meas. depth	approx. 50 mm
Power supply	9 V battery
	battery level indication
Functions	light / heavy concrete
Display	LCD, 3 1/2 digits
Dimensions	165 x 80 x 30 mm
Weight	500 g

### INCLUDES

Moisture meter, battery, carrying case, instruction manual

ITEM NO.	ITEM
K-PCE-WP21	moisture meter



## PCE-WP24

Moisture Meter for Building Materials

- meas. depth 50 ... 60 mm (depends on material)
- measurement results within seconds
- no need to prepare sample
- large LCD display
- suitable for on-site use
- battery level indication



### TECHNICAL SPECIFICATIONS

Measurement range	wood: 4 ... 60 % absolute moisture
	building mat.: 0 ... 10 % abs. m.
Resolution / accuracy	0.1 % / ± 0.7 %
Meas. depth	wood: approx. 50 mm
	building material: approx. 60 mm
Settings	density 0.3 ... 1.1 g/cm <sup>3</sup>
	dens. building mat.: 0.8 ... 2.8 g/m <sup>3</sup>
	wood thickness: 10 ... 60 mm
	build. mat. thickness: 30 ... 50 mm
Power supply	9 V battery
Display	LCD, 3 1/2 digits
Dimens. / weight	165 x 80 x 30 mm / 500 g

### INCLUDES

Moisture meter, battery, carrying case, instruction manual

ITEM NO.	ITEM
K-PCE-WP24	moisture meter



## PCE-WM1

Rel. Hum. / Abs. Moisture Meter [g/m<sup>3</sup>]

- measures relative humidity and temperature
- calculates absolute moisture in g/m<sup>3</sup> and dew point
- HOLD function
- external probe for temperature and humidity
- Automatic Power Off / MIN, MAX, HOLD



### TECHNICAL SPECIFICATIONS

Meas. range	10 ... 95 % RH / -20 .. +80 °C
Resolution	0.1 % RH / 0.1 °C
Accuracy	±2 % RH / ±0.5 °C
Dew point	-25.3 ... +48.9 °C
Absolute moisture	calculated
Functions	MIN, MAX, HOLD
Recalibration	by PCE Instruments
Display	LCD, 3 1/2 digits
Power supply	9 V battery
Dimensions	probe: 150 x 30 mm
	device: 165 x 80 x 33 mm
Weight	380 g

### INCLUDES

Humidity / moisture meter with external sensor, temperature sensor, battery, case, instruction manual.

ITEM NO.	ITEM
K-PCE-WM1	humidity meter

### OPTIONAL ACCESSORIES

K-CAL-PCE-WM1	ISO calibration certificate
K-PCE-WM-KF	spare sensor

## RH-2

Thermohygrometer for climatological and environmental use

- quick adaptation / stable and long-life sensors (optional sensors)
- simple saving of the measured values for later reference
- multi-lingual menu
- innovative sensor technology
- HOLD function



### TECHNICAL SPECIFICATIONS

Measurement range	Temp. / RH-20 °C ... +120 °C / 0 ... 100 % RH (precision penetration probe)
	Temp. / RH-20 °C ... +85 °C / 0 ... 100 % RH (temp. / RH probe, 2 m cable)
Independent of sensor:	DP +55 ... +60 °C / RH 0 ... 130 g/m <sup>3</sup> (air) / EMC 2 ... 30 % (wood)
Resolution	0.1 °C / 0.1 % / 0.1 g/m <sup>3</sup> / 0.1 % (EMC)
Accuracy	EMC wood humidity ± 0.5 %
	accuracy of hum./ temp sensor: ± 0.5 °C / ± 1.5 %
	RH / temp. probe with 2 m cable: ± 0.5 °C / RH ± 2.5 %
Sample quantity / ATC	300 g / included
Memory / display	10000 values / 128 x 64 mm matrix display with backlight
Power supply	4 x 1.5 V AA Alkaline batteries (for approx. 1800 measurements)
Dimensions	145 x 63 x 24 mm / F1: 100 x 12 mm / F2: 300 x 12 mm
Weight	400 g

### INCLUDES

Thermohygrometer, box, batteries, instruction manual (sensor and AW meas. chamber can be ordered separately)

ITEM NO.	ITEM
K-RH-2	thermohygrometer

### OPTIONAL ACCESSORIES

K-RH-2-AW	AW chamber + F2
K-RH-2-TP	F1 (temp. / RH probe, 2 m cable)
K-RH-2-PFT	F2 (precision penetr. probe RH / °C)
K-RH-2-PFTD	RH / temp. comp. air probe, 2m
K-RH-2-USB	USB LogMemorizer module

### OPTIONAL ACCESSORIES

K-RH-2-S	sintered cap
K-RH-2-E	verification / calibration kit
	2 x 35 %, 1 x 50 %, 2 x 80 % RH