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 humidity and moisture measuring devices and on all other products we offer.

Pocket Thermohygrometer

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

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)

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

Pocket Thermohygrometer

- 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

Thermohygrometer USB

- 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
- Dew point calculated (accuracy ± 2 °C)
- Saving rate adjustable, 2 s, 5 s, 10 s ... 24 h
- Start, alarm, date adjustable (incl. alarm)
- Dimensions 228 x 55 x 33 mm
- Weight 195 g

Pocket Thermohygrometer

- 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, alarm, date adjustable (incl. alarm)
- Display 2 LEDs (rec. / alarm)
- Operating conditions -40 ...+70 °C / 0 ... 100 % RH
- Dimensions 102 x 30 mm / 25 g
- Weight 105 g

TECHNICAL SPECIFICATIONS

Pocket thermohygrometer, battery, instruction manual

ITEM NO. ITEM
K-PCE-MHT 1 pocket thermohygrometer
K-CAL-SET-RF calibration set 33% / 75% RH

OPTIONAL ACCESSORIES

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

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

Thermohygrometer, carrying case, battery, instruction manual

ITEM NO. ITEM
K-PCE-555 thermohygrometer
K-PCE-HT 71S ISO calibration certificate
K-CAL-SET-RF calibration set 33% / 75% RH

INCLUDES

Pocket thermohygrometer, battery, instruction manual

OPTIONAL ACCESSORIES

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

INCLUDES

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

INCLUDES

USB thermohygrometer, wall mount, battery, software, instruction manual
**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. range:** -20 ... +50 °C
- **Accuracy:** ±0.8 °C
- **Resolution:** 0.1 °C
- **Weight:** 490 g
- **Dimensions:** 177 x 68 x 45 mm

**INCLUDES**

- Thermometer, battery, case, instruction manual

**OPTIONAL ACCESSORIES**

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

**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**

- **Feels:** 135 x 18 x 36.3 mm
- **Operating cond.:** -20 ... +50°C, <80 % RH

**INCLUDES**

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

**OPTIONAL ACCESSORIES**

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

**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**

- **Temp. (ext. / IR):** -20 ... +750 °C
- **Dew point:** -68 ... +60 °C
- **Wet bulb:** -21.6 ... +50 °C
- **Display:** LCD
- **Accuracy:** RH: ±3 % at >70 % RH / ±3 % of reading ±1 % at <70 % RH
- **Resolution:** 0.1 % RH / 0.1 °C

**TECHNICAL SPECIFICATIONS**

- **Max. range:** Temperature (internal sensor) -20 ... +60 °C / Temperature (type K): ± 0.4 °C + 0.5 °C
- **Accuracy:** RH: ±3 % at >70 % RH / ±3 % of reading ±1 % at <70 % RH
- **Resolution:** 0.1 % RH / 0.1 °C

**TECHNICAL SPECIFICATIONS**

- **Max. range:** 130 g

**INCLUDES**

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

**OPTIONAL ACCESSORIES**

- K-PCE-310 psychrometer
- K-CAL-SET-RF calibration set 33% / 75% RH
- K-CAL-PCE-320 psychrometer

**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
- PCE-313 S model includes sintered cap

**TECHNICAL SPECIFICATIONS**

- **Max. range:** 0 ... +55 °C / Temperature: ± 0.8 °C / Temperature (type K): ± 0.4 °C + 0.5 °C
- **Accuracy:** RH: ±3 % at >70 % RH / ±3 % of reading ±1 % at <70 % RH
- **Resolution:** 0.1 % RH / 0.1 °C

**TECHNICAL SPECIFICATIONS**

- **Max. range:** Temperature: ±0.8 °C / Temperature (type K): ± 0.4 °C + 0.5 °C
- **Accuracy:** RH: ±3 % at >70 % RH / ±3 % of reading ±1 % at <70 % RH
- **Resolution:** 0.1 % RH / 0.1 °C

**TECHNICAL SPECIFICATIONS**

- **Max. range:** Temperature (internal sensor) -20 ... +60 °C / Temperature (type K): ± 0.4 °C + 0.5 °C
- **Accuracy:** RH: ±3 % at >70 % RH / ±3 % of reading ±1 % at <70 % RH
- **Resolution:** 0.1 % RH / 0.1 °C

**TECHNICAL SPECIFICATIONS**

- **Max. range:** 130 g

**INCLUDES**

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

**OPTIONAL ACCESSORIES**

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

**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 mm
- 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**

- **Max. range:** RH: ± 2 % / Temp.: ± 1 °C
- **Accuracy:** ± 0.5 % RH / ± 0.1 °C
- **Response time:** 4 s
- **Display:** LED, 110 mm
- **Visibility:** from approx. 50 m
- **Power supply:** 50 ... 80 V AC / 230 V / 50 ... 60 Hz
- **Dimensions:** sensor: 50 x 70 x 20 mm
- Display: 175 x 175 x 75 mm
- **Weight:** 130 g

**INCLUDES**

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

**OPTIONAL ACCESSORIES**

- K-PCE-G1 display
- K-PCE-G1A display with analogue output
Hygrometer

**RH5**
- **Thermohygrometer for Paper Stacks**
  - Measures relative humidity and temperature
  - Non-destructive measuring method
  - Memory capacity for 10 000 values
  - Moisture sensor from -55 to +60 °C
  - PC interface

**GMK 100**
- **Capacitive Material Moisture Meter**
  - Measures depth and 25 mm moisture evaluation
  - Visual moisture on 6 levels
  - Temperature
  - Dew point balance
  - Meas. depth 0 - 100 % RH / -10 ... +60 °C

**BL Compact RH-T Flex**
- **Equilibrium Moisture Content Meter**
  - Flexible tube sensor available in 2 lengths (Ø 6.5 mm)
  - Dew point from -55 to +60 °C
  - Accuracy: ± 1.5 % RH / ± 0.4 °C

**Klimagriff®**
- **Window Mould Protector**
  - 3 LEDs indicate: close window, heat / open window
  - Automatically calculates wood moisture balance
  - USB interface for data transmission

**BL Compact TF2**
- **Humidity / Moisture Meter**
  - Measures depth range / resolution
  - Meas. range 0 ... 100 % RH / -10 ... +60 °C

**PCE-PMI 1**
- **Material Moisture Meter**
  - Non-destructive measurement of surface
  - Measurement range 0 - 10 % RH

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**Technical Specifications**

**RH5**
- **Meas. range**
  - 0 ... 100 % RH

**GMK 100**
- **Meas. range**
  - 0 ... 100 % RH

**BL Compact RH-T Flex**
- **Meas. range**
  - 0 ... 100 % RH

**Klimagriff®**
- **Meas. range**
  - 0 ... 100 % RH

**BL Compact TF2**
- **Meas. range**
  - 0 ... 100 % RH

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**PCE-PMI 1**
- **Meas. range**
  - 0 ... 10 % RH

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**Inclusions**

**RH5**
- HYGROGRIP®
- Instruction manual
- Thermohygrometer, wooden box

**GMK 100**
- HYGROGRIP®
- Instruction manual
- Capacitive material moisture meter, 9 V battery

**BL Compact RH-T Flex**
- HYGROGRIP®
- Instruction manual
- Equilibrium moisture content meter, sensor (one of two models)

**Klimagriff®**
- HYGROGRIP®
- Instruction manual
- Mould protector, batteries, screws, square extension (DIN 18267:2005-01)

**BL Compact TF2**
- HYGROGRIP®
- Instruction manual
- Humidity / moisture meter, battery, plastic box

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**Contact**

www.pce-instruments.com/us
www.pce-instruments.com/english
Humidity /moisture measuring devices

**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

**PCE-WP21**
- Moisture Meter for Concrete and Screed
  - selective types of concrete (light / heavy)
  - no need to prepare sample
  - 3-digit LCD display
  - can be used on-site easily
  - battery level indication

**PCE-WP24**
- Moisture Meter for Building Materials
  - mass. 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

**PCE-WM1**
- Rel. Hum. / Abs. Moisture Meter (g/m³)
  - measures relative humidity and temperature
  - calculates absolute moisture in g/m³ and dew point
  - HOLD function
  - external probe for temperature and humidity
  - Automatic Power Off / MIN, MAX, HOLD

**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**

**K-BL Compact B**
- Building Moisture Indicator, battery, plastic box,
  - Weight approx. 180 g
- Applicable types 6LR61 type and/or 6F22 type
- Operating cond. -10 ... +60 °C (short time)

**PCE-WP21**
- Measuring range wood: 4 ... 50 % absolute moisture
- Measuring range building mat.: 0 ... 10 % abs. m.
- Resolution / accuracy 0.1 %
- Accuracy ±0.7 %
- Battery level indication
- LCD, 3 1/2 digits
- Dimensions 165 x 80 x 30 mm
- Weight 550 g

**PCE-WP24**
- Measuring range wood: 4 ... 60 % absolute moisture
- Building material: approx. 60 mm
- Resolution / accuracy 0.1 %
- Accuracy ±0.7 %
- Battery level indication
- LCD, 3 1/2 digits
- Dimensions 165 x 80 x 30 mm
- Weight 550 g

**PCE-WM1**
- Measuring range wood: 4 ... 60 % absolute moisture
- Resolution / accuracy 0.1 %
- Accuracy ±0.7 %
- Battery level indication
- LCD, 3 1/2 digits
- Dimensions 165 x 80 x 30 mm
- Weight 550 g

**TECHNICAL SPECIFICATIONS**

**K-RH-2**
- Thermohygrometer
  - Temperature / Humidity
  - Measuring range Temp. / RH -20 °C ... +85 °C / 0 ... 100 % RH (humidity meter)
  - Temperature / Humidity
  - Measuring range Temp. / RH -20 °C ... +85 °C / 0 ... 100 % RH (humidity meter)

**OPTIONAL ACCESSORIES**

**K-RH-2-TP**
- 2 x 35 %, 1 x 50 %, 2 x 80 % RH

**K-RH-2-AW**
- AW chamber + F2

**K-RH-2-E**
- Verification / calibration kit

**K-RH-2-USB**
- USB Loganalyzer module

**K-RH-2-F2**
- F2 (precision penrite probe RH / °C)

**K-RH-2-F2D**
- RH / temp. comp. air probe, 2m

**K-RH-2-PFT**
- RH / temp. comp. air probe, 2m