PCE-555

Pocket thermohygrometer (Dew point)

The PCE-555 pocket thermohygrometer allows you to measure air humidity and temperature quickly and it can also calculate dew point and display wet bulb. Using this in the food industry you will be able to avoid the formation of fungus when transporting and storing food products. If used in the construction industry, you will be able to assess buildings for damp and prevent the formation of mildew by identifying condensation in walls.

• Easy to use
• The LCD shows both temperature and humidity
• Peak Hold function
• Takes MIN and MAX values
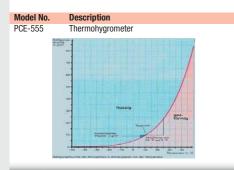• Highly accurate
• Measures dew point and temperature

Technical specifications

Measurement range	0 to 100 % r.h.
	-30 to 100 °C
Resolution	0.01 % r.h.
	0.01 °C
Accuracy	±2.0 % r.h. at 25 °C
	±0.5 °C at 25 °C
Display	4.5 digit, dual display LCD
Battery	1 x 9V battery (PP3)
Dimensions	225 x 45 x 34 mm
Weight	200 g

Contents

PCE-555 thermohygrometer, carrying case, battery and user's manual

Model No.	Description
PCE-555	Thermohygrometer

PCE-310

Psychrometer (Dew point)

The PCE-310 psychrometer is an extraordinary cheap measuring instrument. It can measure environmental conditions (temperature and relative humidity) and can measure surface temperature with its external sensor which is included in the delivery. This psychrometer also offers you the ability to measure dew point and wet bulb.

• Measures relative humidity and temperature with an internal sensor and surface temperature of walls or food with its external sensor
• Dual backlight display (temperature and humidity)
• Measurement of dew point and wet bulb
• Calculates T1 - T2 differential
• Calibration kit
• MAX, MIN, Hold function
• Auto shut-off to save battery life
• ISO Certificate (optional)

Technical specifications

Measurement range	
Temperature (internal)	-20 to 50 °C
Relative Humidity	0 to 100 % r.h.
Temperature	-21.6 to 50 °C
Dew point	-78.7 to 50 °C
Temperature (external)	-20 to 70 °C
Resolution	
Temperature	0.1 °C
Relative humidity	0.1 %
Accuracy	
Temperature	±1 °C
Relative humidity	±3 %
Response time	approx. 60 s
Humidity sensor	endurance sensor
Memory	- - -
Interface	- - -
External temperature-sensor	cable of 1.1m, adjustable with 2.5 mm jack plug / dimensions with handle: 15 cm
Power	2 AAA batteries (1.5 V)
Operating conditions	-20 to 50 °C / 0 to 100 % r.h.
Dimensions	25 x 50 x 180 mm
Weight	130 g

Contents

PCE-310 psychrometer, external temperature sensor, 2 batteries and user's manual

Model No.	Description
PCE-310	Psychrometer with external temperature sensor

Optional accessories

PCE-310-TF	Replacement temperature sensor
CAL-SET-RF	Calibration bottles for 33 % or 75 % r.h.
CAL-RF	ISO Certificate

Optional calibration bottles

PCE-320

Psychrometer (Dew point), with data storage and type-K temperature probes

The PCE-320 psychrometer is the bigger brother to our PCE-310. This psychrometer can measure different environmental conditions, in addition to also being able to simultaneous display the surface temperature of walls and products with its external temperature sensor. It can also calculate dew point and wet bulb. The PCE-320 also has a memory to stores up to 99 measurements.

• Real time clock and date
• Memory stores up to 99 readings
• Measures relative humidity and temperature with an internal sensor and surface temperature of walls or food with its external sensor
• Determines dew point and wet bulb
• ISO Certificate (optional)

Technical specifications

Measurement range	
Temperature (internal)	-20 to 50 °C
Relative humidity	0 to 100 % r.h.
Temperature	-21.6 to 50 °C
Dew point temperature	-78.7 to 50 °C
Temperature (external)	-20 to 70 °C (depending on sensor)
Resolution	
Temperature	0.1 °C
Relative humidity	0.1 %
Accuracy	
Temperature	±0.6 °C
Relative humidity	±3 %
Response time	approx. 60 s
Humidity sensor	endurance sensor
Memory	stores up to 99 readings
External temperature-sensor	cable of 1.1 m, adjustable with a type K beat wire temperature / dimensions with handle: 15 cm
Power supply	4 AA batteries (1.5 V)
Operating temperature	-20 to 50 °C / 0 to 100 % r.h.
Dimensions	44 x 57 x 230 mm
Weight	200 g

Contents

PCE-320 psychrometer, external temperature sensor, 4 batteries and user's manual

Model No.	Description
PCE-320	Psychrometer with external temperature sensor, memory, RS-232

Optional accessories

CAL-SET-RF	Calibration bottles for 33 % or 75 % r.h.
CAL-RF	ISO Certificate

On page 3 you will find type-K temperature sensors

Optional calibration bottles