

Environmental Meter PCE-HVAC 3



PCE-HVAC 3 Multifunction Environmental Meter

Measures relative humidity (% RH) and ambient room temperature (°C / °F) / Calculates dew-point and wet-bulb temperatures (°C / °F) / Features hold and extreme value measurement functions

PCE-HVAC 3 is a multifunction environmental meter, tester or diagnostic measuring device used for indoor climate and environmental monitoring. In addition to measuring relative humidity and ambient room / dry-bulb temperature, the meter calculates dew-point and wet-bulb temperatures in degrees Celsius (°C) and Fahrenheit (°F). Thus, heating, ventilation and air conditioning (HVAC) installations and HVAC system performance assessments are key applications of the PCE-HVAC 3 meter. Measurements of relative humidity and ambient room / dry-bulb temperature are made directly by built-in sensors. Dew-point and wet-bulb temperatures are calculated based on the measurement values transmitted by the sensors.

Featuring a large, backlit display and six-button operation, the meter is both easy to read and easy to use. The meter is equipped to take one-time measurements on the spot as well as to monitor climate changes over time. The automatic shutdown function can be disabled when taking long-term measurements. There is also a thread on the back of the meter to allow the measuring instrument to be mounted on a tripod. The extreme value measurement function can be activated during long-term monitoring to determine the minimum or maximum values over a desired period of time.

- ▶ Ergonomic design
- ▶ Large backlit display
- ▶ One-handed operation
- ▶ Hold and extreme value functions
- ▶ Built-in sensors measure relative humidity and ambient room / dry-bulb temperature
- ▶ Dew-point temperature and wet-bulb temperature calculation
- ▶ Automatic shutdown can be disabled for long-term monitoring

Specifications

Relative humidity (RH) measuring range	0 ... 20% (Accuracy: ± 4% RH) 20 ... 40% (Accuracy: ± 3 % RH) 40 ... 60% (Accuracy: ± 2% RH) 60 ... 80% (Accuracy : ± 3% RH) 80 ... 100% (Accuracy: ± 4% RH)
Ambient room / dry-bulb temperature measuring range	-30 ... -20°C / -22 ... -4°F (Accuracy: ± 1.0°C / 1.8°F) -20 ... 60°C / -4 ... 140°F (Accuracy: ± 0.5°C / 0.9°F) 60 ... 100°C / 140 ... 212°F (Accuracy: ± 1.0°C / 1.8°F)
Relative humidity resolution	0.1%
Ambient room / dry-bulb temperature resolution	0.1°C / 0.18°F
Measuring units	Relative humidity (% RH) Ambient room / dry-bulb temperature (°C / °F) Dew-point temperature (°C / °F) Wet-bulb temperature (°C / °F)
Measuring parameters	% RH, GPP (grains per pound), g / kg, g / m ³ (absolute), gr / ft ³ (absolute)
Display	Dual LCD with backlight
Response time	< 15 seconds
Type of sensor	Humidity: Precise capacitance Temperature: Thermistor
Absolute humidity	0 ... 500g / m ³ 0 ... 218.5 gr / ft ³
Dew-point temperature measuring range	-30 ... 100°C / -22 ... 212°F
Wet-bulb temperature measuring range	0 ... 80°C / 32 ... 176°F
Operating conditions	0 ... 50°C / 32 ... 122°F, < 80% RH (non-condensing)
Storage conditions	-40 ... 85°C / -40 ... 18 °F, < 99% RH (non-condensing)
Power supply	9V block battery
Battery life	Approx. 48 hours
Dimensions	300 x 75 x 50 mm / 11.81 x 2.96 x 1.97 in
Weight	400 g / < 1 lb

Ordering code

PCE-HVAC 3

S : Sinter filter



PCE-HVAC 3



PCE-HVAC 3S

More information

Manual



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