

**PCE-HVAC 3 Multifunction Environmental Meter with ISO calibration certificate  
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 environmental meter 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 environmental 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 environmental meter is both easy to read and easy to use. The environmental 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 environmental 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
- **Incl. ISO calibration certificate**

**Specifications:**

|   |   |
|---|---|
| Relative humidity (RH) measuring range              | 0 ... 20% (Accuracy: ± 4% RH)<br>20 ... 40% (Accuracy: ± 3 % RH)<br>40 ... 60% (Accuracy: ± 2% RH)<br>60 ... 80% (Accuracy : ± 3% RH)<br>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)<br>-20 ... 60°C / -4 ... 140°F (Accuracy: ± 0.5°C / 0.9°F)<br>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)<br>Ambient room / dry-bulb temperature (°C / °F)<br>Dew-point temperature (°C / °F)<br>Wet-bulb temperature (°C / °F)                                  |

|                                       |   |
|---------------------------------------|---|
| Measuring parameters                  | % RH, GPP (grains per pound), g / kg,<br>g / m <sup>3</sup> (absolute), gr / ft <sup>3</sup> (absolute) |
| Display                               | Dual LCD with backlight   |
| Response time                         | < 15 seconds  |
| Type of sensor                        | Humidity: Precise capacitance<br>Temperature: Thermistor  |
| Absolute humidity                     | 0 ... 500 g / m <sup>3</sup><br>0 ... 218.5 gr / ft <sup>3</sup>  |
| 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  |

**Delivery scope:**

1 x PCE-HVAC 3-ICA multifunction environmental meter

1 x Battery

1 x User manual

1 x Carrying case

**1 x ISO calibration certificate**