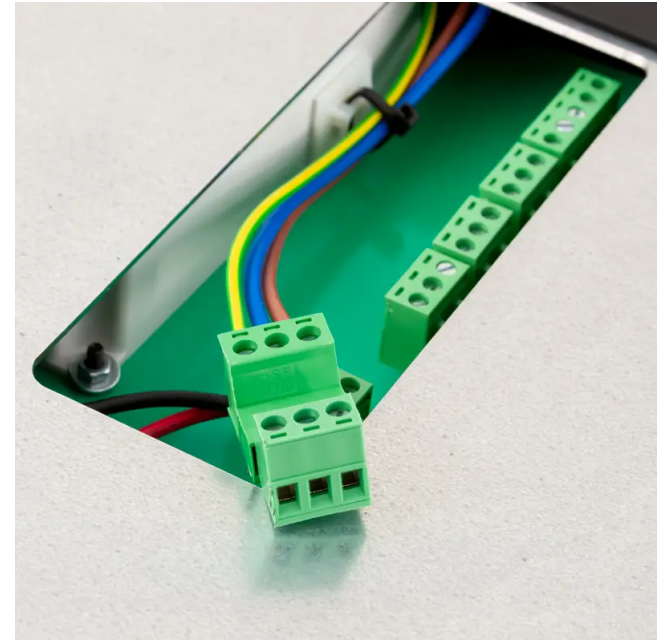
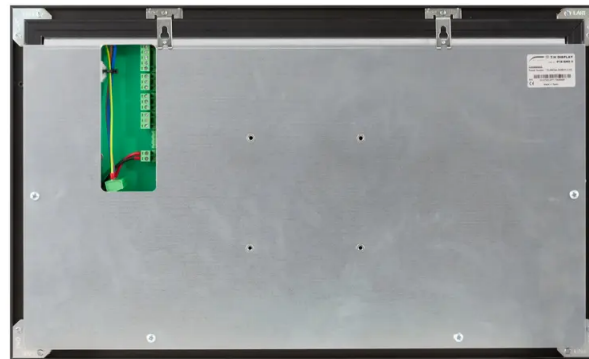


Psychrometer PCE-EMD 5



**Psychrometer with robust aluminium frame / Digit height 100 mm (3.9") /
Temperature measuring range 0 ... 50 °C / Humidity measuring range 0.0 ... 99.9% RH /
Connection of up to four sensors at the same time / Optionally with ISO calibration certificate**

The psychrometer can be connected to up to four external temperature and humidity modules. The temperature measuring range for the sensors of the thermo-hygrometer is 0.0 ... 50.0 °C and the humidity measuring range is 0.0 ... 99.9% RH. The power supply of the thermo-hygrometer is via a mains connection of 110 ... 220 V AC. The integrated sensor supply can supply the connected sensors from the thermo-hygrometer with 12 or 24 V DC.

As soon as the sensors are connected, they are automatically recognized by the psychrometer. The communication between the sensor modules and the thermo-hygrometer takes place via an analog 4 ... 20 mA signal. If several sensors are connected, the average reading of all sensors is displayed on the thermo-hygrometer. Thus, the thermo-hygrometer is used, for example, in event halls, restaurants or in public buildings to monitor the ambient conditions.

Both the psychrometer and the sensor module are mounted on a wall. If necessary, the thermo-hygrometer can be mounted on a monitor bracket with the mounting dimensions 75 x 75 mm (2.95 x 2.95"). This allows the thermo-hygrometer to be ideally aligned. The thermo-hygrometer can optionally be equipped with an ISO calibration certificate.

- ▶ Digit height of 100 mm (3.9")
- ▶ Measuring ranges: 0.0 ... 50.0 °C
- ▶ Wall mounting
- ▶ Connection of up to four external sensors
- ▶ Analog 4 ... 20 mA input signal
- ▶ Optionally with ISO calibration certificate

Specifications

| | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Measuring range temperature | 0.0 ... 50.0 °C |
| Resolution | 0.1 °C |
| Accuracy | ±0.5 °C |
| | |
| Measuring range humidity | 0.0 ... 99.9 % RH |
| Resolution | 0.1 % RH |
| Accuracy | ±3 % RH |
| | |
| Further specifications | |
| Response time | <15 seconds at a wind speed of <1 m/s |
| Display interval | 1 Hz |
| Number of usable sensors | 4 |
| Digit height | 100 mm / 3.9" |
| Digit colour | white |
| Sensor supply voltage | 12 and 24 V DC |
| Maximum sensor supply current | 100 mA |
| Impedance current input | <200 Ω |
| Housing material | black painted aluminium housing |
| Screen protection | anti-reflective methacrylate |
| Housing material sensor | ABS |
| Protection class display | IP20 |
| Protection class sensor | IP30 |
| Power supply display | 110 ... 220 V AC 50 / 60 Hz |
| Maximum power consumption | 18 W |
| Mounting display | wall mounting, monitor stand (75 x 75 mm / 2.95 x 2.95") |
| Mounting sensor | wall mounting |
| Terminal strip power supply cable cross-section | 0.5 ... 2.5 mm ² (AWG 14) rigid cable 0.5 ... 1.5 mm ² (AWG 15) flexible cable |
| Terminal strip sensor connection cable cross-section | 0.14 ... 0.15 mm ² (AWG 18) rigid cable 0.15 ... 1 mm ² (AWG16) flexible cable |
| Terminal strip torque | 1.2 Nm |
| Terminal strip screw length | <12 mm / 0.47" |
| Dimensions display | 535 x 327 x 53 mm / 21.0 x 12.8 x 2.0" |
| Dimensions sensor | 80 x 80 x 35 mm / 3.1 x 3.1 x 1.3" |
| Operating conditions | -10 ... 60 °C, 5 ... 95 % RH, non-condensing |
| Storage conditions | -20 ... 70 °C, 5 ... 95 % RH, non-condensing |
| Weight display | 4579 g / 161.5 oz |
| Weight sensor | 66 g / 2.3 oz |

More information

CE Certificate



More product info



Similar products



Subject to change