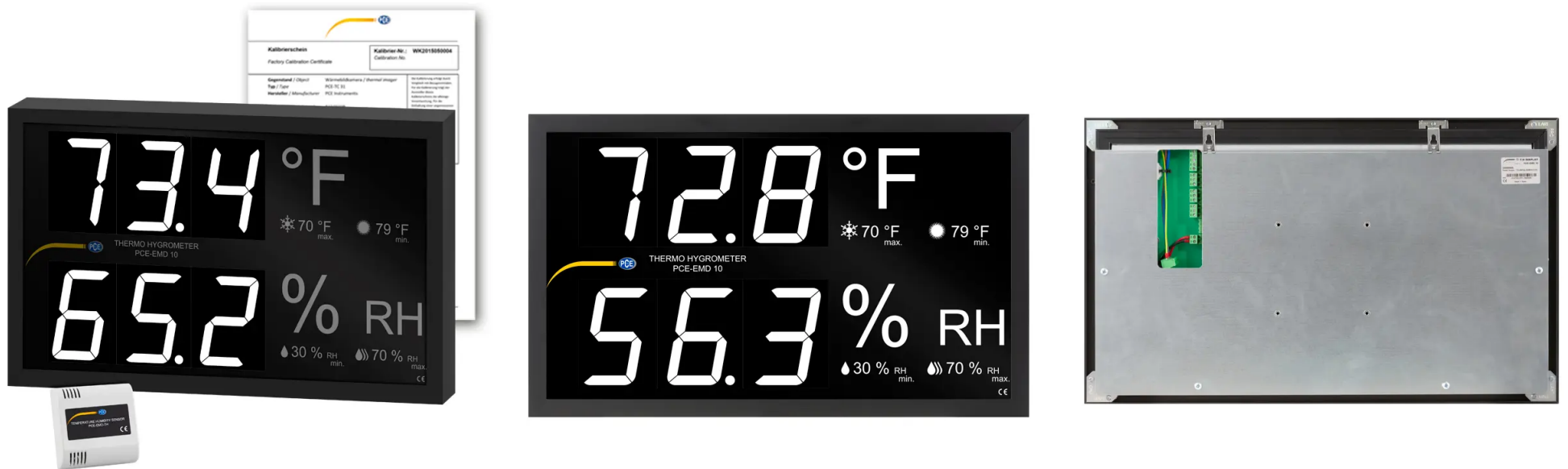# Climate Meter PCE-EMD 10-ICA Incl. ISO Calibration Certificate

Climate meter with robust aluminum frame / Digit height 100 mm (3.9") /Temperature measuring range 32.0 ... 122.0 °F / Humidity measuring range 0.0 ... 99.9% RH /Connection of up to four sensors at the same time

The climate meter can be connected to up to four external temperature and humidity modules. The temperature measurement range at the sensors by the climate meter is 32.0 ... 122.0 °F and the humidity measuring range is 0.0 ... 99.9% RH. The power supply itself is effected in the climate meter via a power supply of 110 ... 220V AC. The integrated sensor can supply the connected sensors in the climate meter 12 or 24V DC supply.

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

Both the climate meter and the sensor module are mounted on a wall. If necessary, the climate meter can be mounted on a monitor bracket with the mounting dimensions 75 x 75 mm. This allows the climate meter to be ideally aligned. The climate meter can optionally be equipped with an ISO calibration certificate.

- ▶ Digit height of 100 mm (3.9")
- ▶ Measuring ranges: 32.0 ... 122.0°F
- ▶ Wall mounting
- ▶ Connection of up to four external sensors
- ▶ Analog 4 ... 20-mA input signal
- ▶ **Incl. ISO calibration certificate**

Specifications

Measuring range temperature	**32.0 ... 122.0 °F**
Resolution	0.1 °F
Accuracy	±0.9 °F
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 mm² (AWG 14) rigid cable 0.5 ... 1.5 mm² (AWG 15) flexible cable
Terminal strip sensor connection cable cross-section	0.14 ... 0.15 mm² (AWG 18) rigid cable 0.15 ... 1 mm² (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

Subject to change