

# Air Sampling Device PCE-MPC 30



**Air Sampling Device with data logger / HCHO measurement / battery for mobile use /  
2.8 "TFT display / measurement of mass concentration / data storage on SD card**

This Air Sampling Device has many functions. With the Air Sampling Device it is possible to determine the number of particles in the size of 0.3, 2.5 and 10  $\mu\text{m}$ . In addition to measuring the particles, the Air Sampling Device can also measure the PM 2.5 and PM 10 mass concentration. The mass concentration of the Air Sampling Device determines the weight of the particles on one cubic meter.

In addition to particle measurement, the Air Sampling Device can also determine the formaldehyde content in ppm. During this HCHO measurement, the temperature, the ambient humidity and the dew point are determined and displayed by the Air Sampling Device. As a further important property, the Air Sampling Device can also store data. It is therefore possible with the Air Sampling Device to evaluate all measured values after a measurement.

- ▶ Particle counter, HCHO, temperature measurement
- ▶ Measured value recording for later analyzes
- ▶ Large 2.8 "LC display, 320 x 240 pixels
- ▶ Mass concentration PM 2.5 and PM 10
- ▶ Battery for mobile use
- ▶ Dew point and wet bulb temperature

# Specifications

|                           |                                |
|---------------------------|--------------------------------|
| Measurable particle sizes | <b>PM 2.5 and PM 10</b>        |
| Measuring range           | 0 ... 2000 µg / m <sup>3</sup> |
| Resolution                | 1 µg / m <sup>3</sup>          |

## Particle counter

|                           |   |
|---------------------------|---|
| Measurable particle sizes | 0.3, 2.5, 10 µm                                     |
| Flow rate                 | 2.83L / min (0.1 ft <sup>3</sup> )                  |
| Counting efficiency       | 50% at 0.3 µm;<br>100% with particle size > 0.45 µm |
| Coincidence error         | <5% at 2,000,000 particles per ft <sup>3</sup>      |
| Data storage              | 5000 data records (micro SD card)                   |
| Counting modes            | cumulative, differential, concentration             |

## HCHO

|                 |                   |
|-----------------|-------------------|
| Measuring range | 0.01 ... 5.00 ppm |
| Accuracy        | ± 5%              |
| Resolution      | 0.01 ppm          |

## Air temperature and relative humidity

|  |   |
|--|---|
| Measuring range air temperature          | 0 ... 50 ° C, 32 ... 122 ° F  |
| Measuring range dew point                | 0 ... 50 ° C, 32 ... 122 ° F  |
| Relative humidity measuring range        | 0 ... 100% RH   |
| Air temperature measurement accuracy     | 10 ... 40 ° C: ± 1 ° C, ± 1.8 ° F<br>Others: ± 2 ° C, ± 3.6 ° F                                     |
| Measuring accuracy dew point temperature | 10 ... 40 ° C: ± 1 ° C, ± 1.8 ° F<br>Others: ± 2 ° C, ± 3.6 ° F                                     |
| Relative humidity accuracy               | 0 ... 20% rel. Humidity: ± 5%<br>20 ... 80% rel. Humidity: ± 3.5%<br>80 ... 100% rel. Fencing: ± 5% |

## More specifications

|                            |   |
|----------------------------|---|
| Operating conditions       | 0 ... +50 ° C, 10 ... 90% rel. humidity,<br>not condensing                |
| Storage conditions         | -10 ... +60 ° C, 10 ... 90% rel. humidity,<br>not condensing              |
| Display                    | 2.8 ", 320 x 240 pixels, backlit color LCD                                |
| Power supply mains adapter | Primary: 100 ... 240 V AC, 50/60 Hz, 0.6 A.<br>Secondary: 9 V DC, 1500 mA |
| Power supply battery       | 7.4 V, 1200 mAh, 8.88 Wh  |
| Battery Life               | approx. 4 hours in continuous operation                                   |
| Battery recharge time      | approx. 2 hours with AC adapter   |
| Dimensions                 | 240 x 75 x 57 mm  |
| Weight                     | 570 g   |

Subject to change