Air Sampler PCE-MPC 20

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Dust measuring device for the measurement of pollutant content of the atmosphere / With data memory / USB interface / Mass concentration / Particle counter

The dust measuring device PCE-MPC 20 is a particle counter that measures the particles in the atmosphere. The measurable particle sizes of the dust measuring device are 0.3, 2.5 and 10 μm. In addition to the particle counter function, the dust meter also measures the mass concentrations PM2.5 and PM10. The built-in high-performance pump ensures a sufficient flow rate at the dust measuring device. In addition, the dust meter can also measure the temperature, humidity and dew point.

The measured values can be read directly on the display of the dust measuring device. Data storage is also possible with the dust measuring device in order to analyze the measured values after a measuring process. The battery used ensures a mobile application. This allows a mobile continuous operation of about 4 hours. A dust measuring device is used wherever a possible health hazard due to fine dust could occur. These include pollution from incineration, manufacturing, energy production, vehicle engine emissions, and the pollution that the construction industry generates.

- ▶ Mass concentration PM2.5 / PM10
- ▶ Data memory up to 5,000 data sets
- ▶ Flow rate 2.83 l / min
- ▶ Display with graphic real-time diagram
- ▶ Battery or AC operation possible
- ▶ Alarm function

Specifications

Mass concentration

Measurable particle sizes	PM2.5 / PM10
Measuring range mass concentration	0 ... 2000 µg / m³
Resolution	1 µg / m³

Particle counter

Measurable particle sizes	0.3, 2.5 and 10 µm
Flow rate	2.83 l / min (0.1 ft³)
Coincidence error	< 5% at 2,000,000 particles per ft³
Counting efficiency	50% at 0.3 µm;
	100% with particle size > 0.45 µm
Counting modes	Cumulative, differential, concentration

Measurement of air temperature and relative humidity

Measuring range air temperature	0 ... 50°C / 32 ... 122°F
Measuring range dew point temperature	0 ... 50°C / 32 ... 122°F
Measuring range relative humidity	0 ... 100%
Measuring accuracy air temperature	10 ... 40°C / 50 ... 104°F: ± 1.0°C / 1.8°F
	Others: ± 2.0°C / 3.6°F
Measuring accuracy dew point temperature	10 ... 40°C / 50 ... 104°F: ± 1.0°C / 1.8°F
	Others: ± 2.0°C / 3.6°F
Measuring accuracy relative humidity	0 ... 20% rel. Humidity: ± 5%
	20 ... 80% rel. Humidity: ± 3.5%
	80 ... 100% rel. Humidity: ± 5%
Operating conditions	0 ... 50°C / 32 ... 122°F, 10 ... 90% rel. humidity,
	Not condensing
Storage conditions	-10 ... 60°C / 14 ... 140°F, 10 ... 90% rel. humidity,
	Not condensing
Data storage	5,000 data sets (Micro SD card)
Display	2.8", 320 x 240 pixels
	Backlit color LCD
Power supply	Rechargeable battery 1200-mAh, 7.4V
Charger	100 ... 240 VAC, 50 or 60 Hz
Battery Life	About 4 hours in continuous operation
Battery recharge time	About 2 hours with AC adapter
Dimensions	240 x 75 x 57 mm / 9.4 x 3 x 2.2 in
Weight	570 g / 1.3 lbs