Dust Measuring Device PCE-PQC 10EU Incl. Calibration Certificate

Dust Measuring Device PCE-PQC 1xEU series incl. calibration certificate

Measurement of particle sizes up to 25 µm / Up to 6 parallel measuring channels / Internal memory / Reporting according to ISO 14644-1, EU GMP Annex I, FS 209E / Extrapolation of the mass concentration in µg / m^3 / Ethernet, USB or (optional) Wifi connection

The particle counters of the PCE-PQC 1xEU series measure the concentration of particles such as dust, soot, pollens and many other aerosols in the air. To accurately determine the degree of pollution of the air, the particle counters were developed. Pollution is mainly generated by combustion, material processing, manufacturing, power generation, vehicle engine emissions and the construction industry. With the help of the PCE-PQC 1xEU series particle counters the exact amount of dirt particles in the air can be measured.

Of greater importance is the degree of pollution of the air with pathogenic particles such as soot, which are released by the industry and especially by diesel vehicles without special filtering in the air. Such dispersion particles are responsible inter alia for reduced visibility, the inhalation of toxic substances and thus reduced labor productivity. It has also been known for some time that the particles also make a not inconsiderable contribution to many medical diseases such as asthma, bronchitis, skin and lung diseases. The particle counters are designed for easy and quick use. The particle counters of the PCE-PQC 1xEU series operate in different modes (real-time, cumulative, differential, mass concentration, ...) and display the results on the display.

- Internal memory
- Particle sizes up to 25 µm
- Color display
- Handy
- 6 measuring channels
- ISO 14644-1, EU GMP Annex I, FS 209E
- Mass concentration
- Ethernet, USB
- **Incl. temperature and humidity sensor**
- **Incl. calibration certificate traceable to NIST ISO 21501-4 and JIS B9921**

Subject to change

Specifications

Measuring range	**0.3 ... 25 µm**
Measuring channel sizes	Factory calibrated at **0.3, 0.5, 1.0, 2.5, 5.0, 10.0 µm**
Counting efficiency	**50% at 0.3 µm 100% at > 0.45 µm** according to JIS
Flow	2.83 l / min (0.1 ft^3 / min)
Random loss	5% at 4,000,000 particles / ft^3
Battery	10 h
Light source	Long-life laser diode
Zero count	< 1 count / 5 min (< 2 particles / ft^3)
	According to ISO 21501-4 and JIS
Counting modes	Automatic, manual, real-time, cumulative /
	Differential, mass concentration
Alarms	1 ... 9999999 counts, adjustable
Calibration	Traceable to NIST
Display	4.3" WQVGA color touch display, 480x272 px
Printer	External thermal printer
Aspiration	Internal pump with automatic
	Flow control
Air outlet	Internal HEPA filter
Battery pack	Replaceable Li-Ion battery
Charging time	About 4 hours
Reports	ISO 14644-1
	EU GMP Annex 1
	FS 209E
Configuration	Memory for 50 custom configurations
Standards	ISO 21501-4 and JIS B9921
Dimensions	25.4 x 12.9 x 11.4 cm
Weight	1.0 kg
Storage	45000 data sets (ring memory) consisting of
	Particle count, temp and humidity, locations and times
Sample locations	Up to 1000 locations can be stored
Samples duration	1 s ... 99 h adjustable
Power supply	110 ... 240V AC 50/60 Hz
Operating conditions	5 ... 40°C / 41 ... 104°F
	Up to 95% RH not condensing
Storage conditions	0 ... 50°C / 32 ... 122°F
	Up to 98% RH not condensing
Temp.-/ Humidity sensor	0 ... +50 °C (32 ... +122 °F), 15 ... 90 % r.H.
Internal	
Resolution	0.5 °C
Accuracy	±0.5 °C (±1 °F), ±2 % r.H.
Interface	**Ethernet, USB**
Optional interfaces	WiFi 802.11 b/g, RS485 or RS232
Number of measuring channels	**6**

More information

Manual

More product info

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