

Particle Counter PCE-PQC 34EU Incl. Calibration Certificate



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Environmental Particle Counter with CO2 Sensor / Optional PID Sensor / Internal memory / Wall mounting / Large measuring range

The environmental particle counter PCE-PQC 3xEU series is characterized by its small size and easy wall mounting. The stationary installation of the environmental particle counter PCE-PQC 3xEU series ensures high-precision air quality studies. Both available models measure particles (PM), temperature, humidity and CO2. The PCE-PQC 35EU also has a high-quality PID (Photo Ionization Detector) sensor for recording total volatile organic compounds (TVOC).

The environmental particle counters use very powerful electronics to be able to effectively measure the simultaneous displays of PM1.0, PM2.5, PM5 .0, PM10.0 and total particles. These measurements are stored simultaneously with the other built-in sensors in a large memory of 45,000 data records. With a large color touchscreen display, the visual indication of the environmental conditions is easy to see.

- ▶ large measuring range up to 25 µm
- ▶ CO2 sensor
- ▶ integrated memory
- ▶ optional PID sensor available
- ▶ optional wifi interface available
- ▶ compact design

Specifications

PCE-PQC 34EU

Measuring range	0.3 ... 25 µm
Measuring channel sizes	factory calibrated at 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm
Counting efficiency	50% at 0.3 µm, 100% at > 0.45 µm according to JIS
Particle mass display	PM0.5, PM1.0, PM2.5, PM5.0, PM10 and TPM
Flow rate	2.83 l/min (0.1 ft ³ /min)
Random loss	10% at 15000000 particles / ft ³
Battery operation	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 display, cumulative/ differential, mass concentration
Acoustic alarm	adjustable, integrated alarm
Calibration	traceable to NIST
Display	4.3" WQVGA color touch display, 480x272 px
Printer	external thermal printer
Air intake	internal pump with automatic flow rate control
Air outlet	interner HEPA filter
Battery	replaceable Li-Ion battery
Charging time	ca. 4 h
Reports	ISO 14644-1 EU GMP appendix 1 FS 209E
Configuration	memory for 50 user-defined configurations
Standards	ISO 21501-4 and JIS B9921
Dimensions	13.3 x 10.5 x 21 cm
Weight	1.8 kg
Memory	45000 data records (ring memory) consisting of particle counting, temperature and humidity, CO ₂ , places and times
Sample duration	1 s ... 99 h adjustable
Power supply	110 ... 240 V AC 50/60 Hz
Operating conditions	+5 ... +40 °C up to 95% r.H. not condensing
Storage conditions	0 ... +50 °C up to 98% r.H. not condensing
CO ₂ Sensor	
Measuring range	0 ... 5000 ppm
Resolution	1 ppm
Accuracy	±1 % of measuring range

More information

Manual



More product info



Similar products



Subject to change

Temp/humidity sensor internal	0 ... +50 °C, 15 ... 90 % r.H.
Resolution	0.5 °C
Accuracy	±0.5 °C, ±2 % r.H.
Interface	Ethernet, USB
Optional interface	Wifi 802.11 b/g, RS485 or RS232
Number of measuring channels	6
Housing material	stainless steel

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