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Particle Counter PCE-PQC 23EU

Air quality monitor PCE-PQC 2xEU series incl. calibration certificate
Incl. CO2 sensor / Large measuring range / PID sensor / 6 measuring channels / Factory calibrated / 2 models available

The air quality monitor of the PCE-PQC 2xEU series measures particle sizes from 0.3 µm to 25 µm with mass concentration and additionally stores the parameters temperature, relative humidity, CO2 and TVOC (PCE-PQC 23EU only). This meter is the most versatile air quality monitor available with advanced power management and the industry's first sleep mode, enabling battery operation for periods that can exceed one month with a single charge. The PCE-PQC 2xEU series can be used as a stand-alone, battery-powered instrument or simply integrated into a building automation and plant monitoring system via Ethernet, USB.

The air quality monitor PCE-PQC 2xEU series can measure not only the measurement of particle sizes and mass concentrations but also the carbon dioxide content in the air. Furthermore, the air temperature and the relative humidity are measured. The air quality monitor PCE-PQC 23EU also has a photoionization detector (PID), which can be used for the measurement of volatile hydrocarbons (VOC's).

- CO2 sensor
- PID sensor
- Temperature and humidity measurement
- Ethernet
- USB
- Wifi (optional)
- **Incl. calibration certificate traceable to NIST ISO 21501-4 and JIS B9921**

Specifications:

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	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 / ft3) 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	13.3 x 10.5 x 21 cm
Weight	1.8 kg
Storage	45000 data sets (ring memory) consisting of Particle counting, temp. And humidity, CO2, (PID),
sample locations	Places and times up to 1000 places can be deposited
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

CO2 sensor	
Measuring range	0 ... 5000 ppm
Resolution	1 ppm
Accuracy	± 1% of v. measuring range

PID sensor	
Measuring range	0 ... 50 ppm
Resolution	0.001 ppm
Accuracy	± 1.5%
Minimum concentration	5 ppb
Response time	< 3 sec.

Temp. / Humidity sensor Intern	0 ... 50°C (32 ... 122°F), 15 ... 90% rh
Resolution	0.5°C / ± 0.9°F
Accuracy	± 0.5°C / ± 0.9°F, ± 2% RH

Interface	Ethernet, USB
Optional interfaces	Wifi 802.11 b / g, RS485 or RS232
Number of measuring Channels	6

Delivery scope:

1 x Particle counter PCE-PQC 23EU
1 x Isokinetic probe
1 x Temperature and humidity sensor
1 x Cleaning filter
1 x Li-Ion rechargeable battery
1 x Software for data download
1 x USB cable
1 x Power supply / battery charger
1 x User manual
1 x Calibration certificate according to NIST