



Air particle counter PCE-PQC 2xUS series

Counting of 6 particle sizes / Flow rate of 2.83 l / min / 4.3" color touch display / Ethernet and USB (optional Wifi) / Incl. temperature and humidity sensor

The PCE-PQC 2xUS series air particle counters are portable detection systems that include particles of specific sizes in the air. Furthermore, the air temperature and the relative humidity are monitored. The fixed flow rate of 2.83 I / min complies with current standards for air particle counter ISO 21501-4 and JIS B9921. Due to the compact design, the air particle counter of the PCE-PQC 2xUS series can be used in a variety of ways. These include the monitoring and inspection of clean rooms, filter systems in operating theaters and bottling plants in the pharmaceutical industry.

The internal memory of the air particle counter is sufficiently large for up to 45000 data sets. These data sets each include the metering parameters, temperature and humidity sensor readings, locations, and timestamp. An optionally available printer enables the measurement results to be printed directly. On the other hand, the stored data records of the air particle counter can be read out and processed via the supplied software via Ethernet, USB or Wifi.

- Captures 6 particle sizes
- Flow rate 2.83 I / min
- Including software package
- 4.3" color touch display
- Ethernet and USB interfaces
- Installed in a stainless steel housing





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Specifications

Measuring range Measuring channel sizes 0.3 ... 25 μm Factory calibrated at 0.3, 0.7, 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	

More information



Up to 98% RH not condensing

CO2 sensor

Measuring range0 ... 5000 ppmResolution1 ppmAccuracy± 1% of v. measuring range

PID sensor

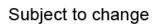
Measuring range0 ... 50 ppmResolution0.001 ppmAccuracy± 1.5%

Subject to change



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Minimum concentration	5 ppb
Response time	< 3 sec.
Temp. / Humidity sensor	0 50°C (32 122°F), 15 90% rh
Intern	
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	6
Channels	





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