PCE PCE-PQC 20EU Particle Counter

Counting of six 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 2xEU 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 l / 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 2xEU 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 l / min
- Including software package
- 4.3" color touch display
- Ethernet and USB interfaces
- Installed in a stainless steel housing
- Incl. calibration certificate traceable to NIST ISO 21501-4 and JIS B9921

SPECIFICATION

Measuring range	0.3 ... 25 µm
Measuring channel sizes	Factory calibrated at 0.5, 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 ft3 / min)
Random loss	5% at 4,000,000 particles / ft³
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	6
measuring Channels	

DELIVERY SCOPE

1 x Particle counter PCE-PQC 20EU
1 x Temperature and humidity sensor
1 x Isokinetic probe
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