

Particle Counter PCE-PQC 12US Incl. Calibration Certificate



Particle counter PCE-PQC 1xUS series incl. calibrationcertificate

Measurement of particle sizes up to 25 μm / Up to 3 parallel measuring channels/ 45,000 record internal memory / Reporting according to ISO 14644-1, EU GMPAnnex I, FS 209E / Extrapolation of the mass concentration in μg / m³ /Ethernet, USB or (optional)

Wifi connection

The particle counters of the PCE-PQC 1xUS series measure theconcentration of particles such as dust, soot, pollens, and many other aerosolsin the air. These particle counters were developed to accurately determine thedegree of pollution of the air. Pollution is mainly generated by combustion, material processing, manufacturing, power generation, vehicle engine emissions and the construction industry and may be invisible to the eye.

The PCE-PQC 1xUS seriesparticle counters allows the user to measure the exact amount of dirt particles in the air. Secondarily important is the degree of air pollution withpathogenic particles such as soot, which are released by heavy industry andespecially by diesel vehicles without special filtering of the air. These dispersion particles are responsible for many respiratory issues, shortness of breath, bronchitis, asthma, stroke, heart attack and thus reduced labor productivity. The particle counters of the PCE-PQC 1xUS series operate indifferent modes (real-time, cumulative, differential, and mass concentration) and display the results on the display with the ability to graph trends and save data remotely

- Handheld, portable, light weight with kickstand
- ▶ Battery life > 10 hours with continuous operation / Battery life > 8 daysin sleep mode
- Internal memory up to 45,000 records
- Particle sizes up to 25 μm
- Color display with touch screen
- 3 measuring channels, upper 2 channels can beadjusted
- ISO 14644-1, EU GMP Annex I, FS 209E
- Mass concentration mode (adjustable: PM 2.5 and PM 10 e.g.)
- Ethernet, USB, PC software included, and WiFiOptional
- Incl. calibration certificatetraceable to NIST ISO 21501-4

Specifications

Measuring range 0.3 ... 25 μm

Measuring channel sizes Factory calibrated at 0.3, 0.5 and 5.0 μm

Counting efficiency 50% at 0.3 μ m 100% at > 0.45 μ m according to

JIS

Flow 2.83 l/min (0.1 ft3/min)Random loss 5% at $4,000,000 \text{ particles / ft}^3$

Battery 10 h

Light source Long-life laser diode

Zero count $< 1 \text{ count } / 5 \text{ min } (< 2 \text{ particles } / \text{ ft}^3)$

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-lon 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

Interface USB

Optional interfaces Ethernet, WiFi 802.11 b / g, RS485 or RS232

Number of measuring channels 3

PCE PROFESSIONAL. CALIBRATED. EQUIPMENT.