PARTICLE COUNTER INCL. CALIBRATION CERTIFICATE

PCE-PQC 15EU



- **Internal memory**
- **Particle sizes up to 75 µm**
- **Color display**
- **Handy**
- **6 measuring channels**
- **ISO 14644-1, EU GMP Annex I, FS 209E**
- **Mass concentration**
- **USB**
- **Incl. temperature and humidity sensor**
- **Incl. calibration certificate traceable to NIST ISO 21501-4 and JIS B9921**

or (optional) Wifi connection

The particle counters of the PCE-PQC 1xEU series measure the concentration of particles such as dust, soot, pollens and many other aerosols in the air. To accurately determine the degree of pollution of the air, the particle counters were developed. Pollution is mainly generated by combustion, material processing, manufacturing, power generation, vehicle engine emissions and the construction industry. With the help of the PCE-PQC 1xEU series particle counters the exact amount of dirt particles in the air can be measured.

Of greater importance is the degree of pollution of the air with pathogenic particles such as soot, which are released by the industry and especially by diesel vehicles without special filtering in the air. Such dispersion particles are responsible inter alia for reduced visibility, the inhalation of toxic substances and thus reduced labor productivity. It has also been known for some time that the particles also make a not inconsiderable contribution to many medical diseases such as asthma, bronchitis, skin and lung diseases. The particle counters are designed for easy and quick use. The particle counters of the PCE-PQC 1xEU series operate in different modes (real-time, cumulative, differential, mass concentration, ...) and display the results on the display,

Specification

Particle	
Measuring channel sizes	0.5, 1.0, 2.5, 5.0, 10, 30.0
Measuring range	0,5 ... 75 µm
Counting efficiency	50 % at 0.5 µm, 100 % at >0.75 µm according to JIS
Flow volume	2,83 l/min
Relative humidity	
Measuring range	15 ... 90 %
Accuracy	±2 % RH
Temperature	
Measuring range	0 ... 50 °C
Accuracy	±0.5 °C

General technical data	
Display type	Colour touch display
Display size	4,3 Inch
Storage medium	Internal memory
Storage capacity	45000 Data records
Memory capacity (additional information)	Ring memory consisting of particle count, temperature and humidity, locations and times
Storage interval from	1 s
Storage interval to	99 min.
Interface	Ethernet, USB, USB-B
Standard(s)	ISO 21501-4, JIS B9921
Sensor	Temperature
Operating time	10 h
Menu language	English
Power supply	110 ... 240 V AC 50/60 Hz
Connector type	Device-europlug
(Rechargeable) battery	1 x 10,8 V internal , Lithium-ion battery
Capacity	5200 mAh
Operating conditions	5 ... 40 °C , 0 ... 95 % RH
Storage conditions	0 ... 50 °C , 0 ... 98 % RH
Dimensions (L x W x H)	254 x 129 x 114 mm