PARTICLE COUNTER

PCE-PQC 35EU



- **Internal memory**
- **Particle sizes up to 25 µm**
- **Color display**
- **Handy**
- **6 measuring channels**
- **ISO 14644-1, EU GMP Annex I, FS 209E**
- **Mass concentration**
- **Ethernet, USB**
- **Incl. temperature and humidity sensor**
- **Incl. calibration certificate traceable to NIST ISO 21501-4 and JIS B9921**

With the help of a particle counter calibrated in compliance with ISO 21501-4, the size and number of particles in gases can be determined. Particle Counter Industry ISO-21501-4It often goes about optical particle counters in accordance with the scattered light method. The essential components of the particle counter with appropriate measuring method are a measuring cell with a light source and detector. The particles are sucked in by means of a vacuum pump and are passed through the measuring chamber. In principle, these components are arranged in such a way, that no light gets on the detector as long as there is no particle in the measuring volume or in the measuring chamber. If a particle passes through the measuring chamber, the light is deflected towards the detector because of the optical effects such as diffraction, scattering or reflection, which causes formation of a signal at the detector depending on the size of the particle.

Specification

CO2	
Measuring range	0 ... 5000 ppm
Resolution	1 ppm
Accuracy	±1% of range
Particles	
Measuring channel sizes	0.3, 0.5, 1.0, 3,0, 5.0, 10
Measuring range	0,3 ... 25 µm
Counting efficiency	50 % at 0.3 µm, 100 % at >0.45 µm according to JIS
flow rate	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 Typ	Color 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 counting, temperature and humidity, CO2
Storage interval from	1 s
Storage interval until	99 min.
Interface	Ethernet, USB
Norm(en)	ISO 21501-4, JIS B9921
Sensor	temperature
Response time	3 s
Operating time	10 h
Menu language	English (US)
Power supply	110 ... 240 V AC 50/60 Hz
Connector type	Device Europlug
Battery/battery	1 x 10,8 V intern , Lithium-ion battery
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)	133 x 105 x 210 mm