PARTICLE COUNTER INCL. CALIBRATION CERTIFICATE

PCE-PQC 23EU



- **CO2 sensor**
- **PID sensor**
- **Temperature and humidity measurement**
- **Ethernet**
- **USB**
- **Wifi (optional)**

The air quality monitor of the PCE-PQC 2xEU series measures particle sizes from 0.3 µm to 25 µm with mass concentration and additionally stores the parameters temperature, relative humidity, CO2 and TVOC (PCE-PQC 23EU only). This meter is the most versatile air quality monitor available with advanced power management and the industry's first sleep mode, enabling battery operation for periods that can exceed one month with a single charge. The PCE-PQC 2xEU series can be used as a stand-alone, battery-powered instrument or simply integrated into a building automation and plant monitoring system via Ethernet, USB.

The air quality monitor PCE-PQC 2xEU series can measure not only the measurement of particle sizes and mass concentrations but also the carbon dioxide content in the air. Furthermore, the air temperature and the relative humidity are measured. The air quality monitor PCE-PQC 23EU also has a photoionization detector (PID), which can be used for the measurement of volatile hydrocarbons (VOC's).

Specification

CO^2	
Measuring range	0 ... 5000 ppm
Resolution	1 ppm
Accuracy	±1 % of range
Particle	
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 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, CO2, (PID)
Storage interval from	1 s
Storage interval to	99 min.
Interface	Ethernet, USB
Standard(s)	ISO 21501-4, JIS B9921
Sensor	Temperature
Response time	3 s
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)	133 x 105 x 210 mm
Weight	700 g