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Dust Measuring Device PCE-PCO 1



Condition new

Price **US\$ 1,041.00**

GTIN (EAN) 4250348714817

Order no. PCE-PCO 1

Content 1 pc.

ex. VAT, ex. delivery costs[Question / Callback](#)**Available in: 1-2 days**[\[zoom\]](#)[Datasheet](#)

Detail

More images:



**Dust Measuring Device to measure concentration of particles in the air /
with memory / six sizes of particles able: 0.3, 0.5, 1.0, 2.5, 5.0 and 10 µm /
measures temperature and relative humidity / video and photo**

The Dust Measuring Device PCE-PCO 1 is a universal measuring instrument for measuring the concentration of particles in the air. The Dust Measuring Device can measure six different particle sizes. In addition to that the Dust Measuring Device has sensors to measure temperature and relative humidity, so the particle counter becomes an all-rounder. The built-in camera allows connection of the measurement data with image / video material. The Dust Measuring Device was developed to precisely determine the level of pollution. The pollution is caused by combustion, manufacturing, energy generation, vehicle exhaust emissions and the construction industry. By using the Dust Measuring Device the exact amount of dirt particles in the air can be measured. A high degree of pollution of the atmosphere is found mainly in urban areas and in work areas. Of increasing importance is the degree of contamination of the air with disease-causing particles, such as soot or particles being submitted into the air by industry and especially by diesel vehicles without special filters. Such dispersion is responsible among other things for reduced visibility, the spread of contamination, inhalation of toxic substances and thus reduced labour productivity. For some time it is also known that the particles also have a not inconsiderable contribution to many medical diseases, such as asthma, bronchitis, skin and pulmonary diseases.

- Measures six sizes of particles
- Large colour screen
- Camera for photo and video recording
- Large LCD display with backlight
- Sensor for relative humidity and temperature
- Internal memory: 80 MB

General Technical specifications for the Dust Measuring Device PCE-PCO 1

Environmental Conditions	0 ... 50 °C, 10 ... 90 % RH (non-condensing)
Display	2.8 " / 320 x 240 pixels, back-lit, colour
Battery	rechargeable, operating time ~ 4 hours
Dimension	240 x 75 x 55 mm
Weight	420 g
Memory	internal: 80 MB external: micro SD card up to 8 GB (optional)

Dust Measuring Device:

Measurable sizes of particles	0.3 / 0.5 / 1.0 / 2.5 / 5.0 und 10 µm
Flow rate	2.83 l/min
Coincidence error	<5% at 2,000,000 particles per cubic foot
Counting efficiency	50 % at particle size 0.3 µm 100 % at particle size > 0.45 µm
Data storage:	5000 records
Counting modes	cumulative, differential, concentration

Air temperature and relative humidity:

Temperature:	
Measuring range	0 ... +50 °C
Precision	±0.5 °C with +10 ... +40 °C otherwise ± 1 °C
Dew point temperature:	
Measuring range	0 ... +50 °C
precision	±0.5 °C with +10 ... +40 °C otherwise ± 1 °C
Relative humidity:	
Measuring range	0 ... 100 % RH
precision	±3 % RH with 40 ... 60 % ±3.5 % RH with 20 ... 40 % and 60 ... 80 % ±5 % RH with 0 ... 20 % and 80 ... 100 %

Delivery content of the Laser Dust Measuring Device PCE-PCO 1

1x Particle Counter PCE-PCO 1
1 x zero filter
1 x battery
1 x charger
1 x USB cable
1 x user Manual
1 x CD-ROM (software)
1 x tripod
1 x signed factory calibration certificate
1 x hard case

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