DUST MONITOR

PCE-MPC 30



- **Particle counter, HCHO, temperature measurement**
- **Measured value recording for later analyzes**
- **Large 2.8 "LC display, 320 x 240 pixels**
- **Mass concentration PM 2.5 and PM 10**
- **Battery for mobile use**
- **Dew point and wet bulb temperature**

This dust monitor has many functions.With the dust monitor it is possible to determine the number of particles in the size of 0.3, 2.5 and 10 µm.In addition to measuring the particles, the dust monitor can also measure the PM 2.5 and PM 10 mass concentration. The mass concentration of the dust monitor determines the weight of the particles on one cubic meter. In addition to particle measurement, the dust monitor can also determine the formaldehyde content in ppm.During this HCHO measurement, the temperature, the ambient humidity and the dew point are determined and displayed by the dust monitor.As a further important property, the dust monitor can also store data.It is therefore possible with the dust monitor to evaluate all measured values after a measurement.

Specification

Formaldehyde	
Measuring range	0,01 ... 5 ppm
Resolution	0,01 ppm
Accuracy	±5 %
Particle	
Measuring channel sizes	PM2,5, PM10
Measuring range	0 ... 2000 µg/m³
Resolution	1 µg/m³
Particle	
Measuring channel sizes	0.3, 2.5, 10
Counting efficiency	50 % at 0.3 µm; 100 % at particle size > 0.45 µm
Flow volume	2,83 l/min
Coincidence error	<5% at 2,000,000 particles per ft³
Dew point	
Measuring range	0 ... 10 °C
Resolution	0,1 °C
Accuracy	±2°C
Dew point	
Measuring range	10 ... 40 °C
Resolution	0,1 °C
Accuracy	±1°C
Dew point	
Measuring range	40 ... 50 °C
Resolution	0,1 °C
Accuracy	±2°C
Relative humidity	
Measuring range	0 ... 20 %
Resolution	0,1 %
Accuracy	±5 %
Relative humidity	
Measuring range	20 ... 80 %
Resolution	0,1 %
Accuracy	±3.5 %
Relative humidity	
Measuring range	80 ... 100 %
Resolution	0,1 %
Accuracy	±5 %
Temperature	

General technical data	
Display type	LC colour display with backlight
Display size	2,8 Inch
Display resolution	320 x 240 pixels
Storage medium	SD card
Storage capacity	5000 Data records
Interface	Mini-USB
Sensor	Temperature
Operating time	4 h
Automatic power-off from...to	3 ... 60 min.
Measurement mode	kumulativ, differential, Concentration
Menu language	English, French, German, Spanish, English (GB)
Protection class (device)	IP20
Power supply	100 ... 240 V AC | 50/60 Hz
Connector type	Device-europlug
(Rechargeable) battery	1 x 7,4 V internal , Lithium-ion polymer battery
Capacity	1200 mAh
Operating conditions	0 ... 50 °C , 10 ... 90 % RH
Storage conditions	-10 ... 60 °C , 10 ... 90 % RH
Dimensions (L x W x H)	240 x 75 x 57 mm
Weight	570 g

Measuring range	0 ... 10 °C
Resolution	0,1 °C
Accuracy	±2 °C
Temperature	
Measuring range	10 ... 40 °C
Resolution	0,1 °C
Accuracy	±1 °C
Temperature	
Measuring range	40 ... 50 °C
Resolution	0,1 °C
Accuracy	±2 °C
Temperature	
Measuring range	32 ... 50 °F
Resolution	0,2 °F
Accuracy	±3.6 °F
Temperature	
Measuring range	32 ... 104 °F
Resolution	0,2 °F
Accuracy	±1.8 °F
Temperature	
Measuring range	105 ... 122 °F
Resolution	0,2 °F
Accuracy	±3.6 °F