



This is a multi-in-one air quality module sensor. It can accurately measure the concentration of various gases in the air. Raised dust, as one of the main sources of airborne particles, contributes 40% proportion of PM10 composition. It is a remarkable pollution which is very harmful risk for human beings. Accurate monitoring for raised dust outdoor then become necessary to provide the basis for efficient control, which is a basis to mitigate the pollutions.

Working voltage: 5V (DC)
Average Current: < 300 mA
Peak Current: < 500 mA
Interface level: 3V(compatible with 3.3V)

Ozone (O3):

Range: 0~10 ppm
Resolution: 0.01 ppm
Accuracy: ± 0.1 ppm, when the concentration is ≤ 1 ppm;
 $\pm 20\%$ full range, when the concentration is over 1ppm;
Warm-up: ≤ 3 min
Response time: ≤ 90 s, Recovery time: ≤ 90 s
Sampling method: Diffuse
Life span: 2 years(18~25°C in clean air)

Sulfur dioxide (SO2):

Detection Range: 0~20ppm
Max range: 200ppm
Sensitivity: (0.8 ± 0.2) μ A/ppm
Resolution: 0.1ppm
Working Voltage: DC 5, ± 0.1 V
Working Current: < 5 mA
Working Life: 2 years

Nitrogen dioxide (NO2):

Range: 0.1~10 ppm
Resolution: 0.05ppm
Warm-up: ≤ 3 min
Response time: ≤ 120 s, Recovery time: ≤ 90 s

PM2.5 & PM10:

Range: 0~1000 μ g/m³
Particle size range: 0.3-10 μ m (PM1.0, PM2.5, PM10)
Accuracy: ± 15 μ g/m³(when concentration is ≤ 100 μ g/m³);
 $\pm 15\%$ (when concentration is > 100 μ g/m³)
Response time: T90 < 45s
Sampling method: Fan extraction
MTTF: Continuous uninterrupted > 10000h

Carbon monoxide (CO):

Range: 0~500 ppm
Resolution: 0.1 ppm
Accuracy: $\pm 10\%$ reading value
Warm-up: ≤ 30 s
Response time: ≤ 30 s
Recovery time: ≤ 30 s
Sampling method: Diffuse
Life span: 3~5 years (in air)

Represented by:



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**** Drawing & specifications are subjected to change at any time without prior notice as per manufacturing suitability.**