

Pollution & Gases Measurement Sensor



Pollution & Gases Measurement Sensor 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)

Nitrogen dioxide (No2)

Range: 0.1~10 ppm

Resolution: 0.05ppm

Warm-up: ≤3min

Response time: ≤120s, Recovery time: ≤90s

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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 1 ppm;

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: 0~20 ppm

Max range: 200 ppm

Sensitivity: (0.8 ± 0.2) μ A/ppm

Resolution: 0.1 ppm

Working Voltage: DC 5, ± 0.1 V

Working Current: < 5 mA

Working Life: 2 years

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 < 45 s

Sampling method: Fan extraction

MTTF: Continuous uninterrupted > 10000 h



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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)

DUQE Square Business Centre, Quarter
Deck, Queen Elizabeth 2, Mina Rashid,
Dubai (United Arab Emirates)

Tel. +971-525829733

E-mail: sales@instrumex.ae

Represented by

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