



Sensor Specifications for Canary Monitor

Commercial Monitor

CO₂ Sensor

Type: Referenced non-dispersive infra-red (NDIR)

Measuring Range: 0 to 10000 ppm*

Accuracy: $\pm 5\%$ of reading or 60 ppm, whichever is greater

Resolution: 1 ppm

CO Sensor

Type: Electrochemical

Measuring Range: 0 to 200 ppm*

Accuracy: $\pm 5\%$ of reading or 2 ppm, whichever is greater

Resolution: 0.1 ppm

Temperature Sensor

Type: CMOSens

Measuring Range: 32 to 122°F (0 to 50° C)

Accuracy: 0.5° C (1.0° F)

Resolution: 0.1° F (0.1° C)

Units: User-selectable (C° or F°)

Relative Humidity Sensor

Type: CMOSens

Measuring Range: 5 to 95 % RH

Accuracy at +25° C: Better than $\pm 2\%$ RH

Resolution: 0.1% RH

VOC

Type: PID (Photo Ionization detector)

Measuring Range: 0 to 20 ppm

Accuracy: 0.1 ppm

Resolution: 0.01 ppm

Optional Sensors

Ozone

Type: Electrochemical
Measuring Range: 0 to 2 ppm
Accuracy: 0.04 ppm
Resolution: 0.001 ppm

Hydrogen Sulfide

Type: Electrochemical
Measuring Range: 0 to 100 ppm
Accuracy: 0.2 ppm
Resolution: 0.01 ppm

Oxygen

Type: Electrochemical
Measuring Range: 0 to 30%
Accuracy: 0.5%
Resolution: 0.1%

Nitrogen Dioxide

Type: Electrochemical
Measuring Range: 0 to 10 ppm*
Accuracy: 0.1ppm (low range) 0.2 ppm (high range)
Note: Higher ranges available. Accuracies are based on a calibration temperature of 22° C (72° F) and are valid for normal indoor environments.
Contact us for information on extreme cases
Resolution: 0.01 ppm

Sulfur Dioxide

Type: Electrochemical
Measuring Range: 0 to 20 ppm
Accuracy: 0.2 ppm
Resolution: 0.01 ppm

Residential Monitor

CO2 Sensor

Type: Referenced non-dispersive infra-red (NDIR)
Measuring Range: 0 to 10000 ppm*
Accuracy: $\pm 5\%$ of reading or 60 ppm, whichever is greater
Resolution: 1 ppm

CO Sensor

Type: Electrochemical

Measuring Range: 0 to 200 ppm*

Accuracy: $\pm 5\%$ of reading or 2 ppm, whichever is greater

Resolution: 0.1 ppm

Temperature Sensor

Type: CMOSens

Measuring Range: 32 to 122°F (0 to 50° C)

Accuracy: 0.5° C (1.0° F)

Resolution: 0.1° F (0.1°C)

Units: User-selectable (C° or F°)

Relative Humidity Sensor

Type: CMOSens

Measuring Range: 5 to 95 % RH

Accuracy at +25° C: Better than $\pm 2\%$ RH

Resolution: 0.1% RH

Particulates

Sensor Description – near nephelometer – range 0-200 ug/m³ accuracy ± 10 ug/m³ or 20% of reading (whichever is larger). Accuracy measurement is difficult because of different sizes of particles.

VOC

Sensor– Metal Oxide – heater inside the sensor basically burns the VOC's that come into contact with the sensor which produces a signal – range is 0-10 ppm. Accuracy is highly dependent on what gas is reacting on the sensor. TBD