

**Product Name :**  
Astra Scientific Indoor Air Quality Monitor

**Product Code :**  
ASTENVIOR-0014



**Description :**

Astra Scientific Indoor Air Quality Monitor

**Technical Specification :**

**Special Features**

- 1). Cost-Effective CO2 monitors made with IR-SOC technology.
- 2). NDIR technology to Improve the long term Stability.
- 3). The Alarm mode will sound at 1000PPM or adjust Alarm level
- 4). Several Modes for adjusting the setting parameters.
- 5). Portable accurate handheld CO2 Monitor.

**Specifications:**

Method : NDIR

Display : LCD

## Independent CO2 and Temperature Readings Calculates Displays Ventilation Rates

Sample Method - Diffusion or flow through (50-200ml/DLABn)

Performance –CO2 Channel A B

Measurement Range 0-3000ppm 0-10000ppm

Resolution 1ppm at 0-1000ppm

5ppm at 0-2000ppm

10ppm at 0-3000ppm 1ppm at 0-1000ppm

5ppm at 1001-2000ppm

10ppm at 2001-4000ppm

20ppm at 4001-6000ppm

40ppm at 6001-10,000ppm

Accuracy :  $\pm 50$ ppm or  $\pm 5\%$  of Reading

Repeatability :  $\pm 20$ ppm

Temperature Dependence :  $\pm 0.1\%$  of Reading per  $^{\circ}\text{C}$  or  $\pm 2$ ppm per  $^{\circ}\text{C}$  Whichever is greater, referenced to  $25^{\circ}\text{C}$

Pressure Dependence : 0.13% of Reading per mm Hg (Corrected via user input for attitude)

Response Time : < 2DLABn for 63% of Step Change

Warm-up time : <60 Seconds at  $22^{\circ}\text{C}$

Response time : < 2DLABn for 63% of Step Change

## Performance - Temperature Channel

Temperature Range : Display  $32$  to  $122^{\circ}\text{F}$  ( $0$  to  $50^{\circ}\text{C}$ )

Display resolution :  $0.1^{\circ}\text{F}$  ( $0.1^{\circ}\text{C}$ )

Display Options :  $^{\circ}\text{C}/^{\circ}\text{F}$  or Off . Set up with Up/Down button

Accuracy :  $\pm 2^{\circ}\text{F}$  ( $\pm 0.1^{\circ}\text{F}$ )

Response Time : 20-30 DLABnutes

Calibration Interval : 12 Months

## Outputs

OC- Normally Low, 100mA max. @24 VDC. Adjustable set point Factory setting is 1000 ppm, One RJ-45 Connector Digital output in R11 protocol, One graphing Software ZyAura view (Under Developing)

## Power Supply

Two Power Supply types

Battery type : Alkaline, AA \* 4 (80 Hours)

External : 6 VDC from External AC/DC adapter

Which included in package (Use specified AC adapter only)

## Power Requirement

160mA Peak, 15mA average from 6V

## General Operating Conditions

Operating Temperature : 32-122 Â°F (0-50 Â°C), 0-95% RH, non-condensing.

Storage Temperature : -4 to 140Â°F (-20 to 60Â°C)



## Astra Scientific

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