



Product Data

A/ESENSE-FAI Carbon Dioxide Sensor

Product Description

The A/ESENSE-FAI measures the carbon dioxide concentration in the ambient air and alarms with sound and light when the levels are exceeding the defined levels. It is offered an attractive enclosure and mounts directly to a wall or on a standard junction box.

The A/ESENSE-FAI features a ppm display, an audible alarm, and three LEDs: Green (0-800 ppm), Yellow (800-1,400 ppm), and Red (1,400 ppm >). The 94 Db audible alarm also has a mute button prominently visible on the front of the enclosure.

The A/ESENSE-FAI is based on a single beam non-dispersive infrared technology and is a cost-optimized solution for the climate control of buildings and other processes. In addition, ABC software eliminates the need for manual calibration.

The A/ESENSE-FAI is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's web site, which is: www.workaci.com.

Product Specifications

Supply Voltage	24 VAC/VDC +/-20%, 50/60 Hz (half-wave rectifier)
Power Consumption	< 1 Watt average
Measurement Range Default	0 to 2,000 ppm
Output Signal	0-10VDC
Accuracy (after a minimum of three weeks of operation)	+/- 30 ppm +/- 3% of reading
Repeatability	+/- 20 ppm +/- 1% of reading
Annual Zero Drift	< +/- 10 ppm
Pressure Dependence	+ 1.6% reading per kPa
Response Time	< 10 sec. @ 30 cc/minute flow rate < 3 minute diffusion time
Warm up Time	≤ 1 minute (@ full specs ≤ 15 minutes)
Operating Temp/ RH Range	32 to 122°F (0 to 50°C) / 0 to 95%, non-condensing
Sensor Coverage Area	7,500 sq. ft. maximum
Audible Alarm	94 dB Typical, with mute button
Approvals	EMC-Directive 89/336/EEC / RoHS-Directive 2002/95/EG

Wiring Diagrams available at www.workaci.com

Carbon Dioxide



Attributes:

- Automatic Background Calibration
- Audible Alarm with mute
- LCD and LEDs (Green, Yellow, and Red)
- 15 year life expectancy
- No field calibration required

Applications:

- Large office buildings
- Schools / gymnasiums
- Conference rooms
- Process Control
- Labs

Automation Components, Inc.
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Middleton, WI 53562
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TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

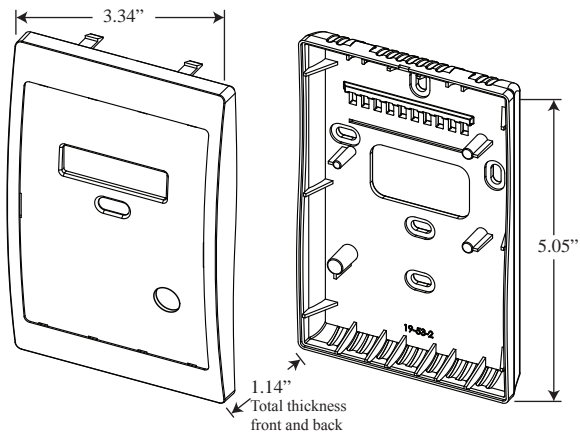
CURRENT

GAS SENSORS

ACCESSORIES

INTERFACE DEVICES

Dimensions



WALL HOUSING

Dim.: 130 x 85 x 30
mm (H x W x D)
Protection class: IP30

Fits Us standard
J-boxes.



Ordering Information:

A/ESENSE-FAI

Accessories:

SADK (configuration and test software)

Log data • Configure outputs • Configure ABC function • Configure FRAC (signal stabilization) • Save and load settings quickly by using a Setfile



ZERO CALIBRATION KIT

Hand held (no gas cylinder required)



ACI can perform customization of the LED and alarm levels for a minimal fee. Please contact us for details.