

Product Description

The A/ESENSE room and duct transmitters monitor the carbon dioxide (CO2) levels in industrial, school, and office type environments. The concentration of CO2 is a good indication of the overall indoor air quality.

Product Data

A/ESENSE Series Carbon Dioxide Sensor

The A/ESENSE Series 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 Series measures the CO2 concentration in the ambient air up to 2,000 ppm and converts the data into an analog output. This data can be used in conjunction with a Building Automation or Demand Control Ventilation System to decrease energy consumption while creating a healthier indoor climate.

Units come with combined outputs of 0-5VDC and 4 to 20mA or 0-10VDC and 4 to 20mA.

The A/ESENSE Series 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 (up to 3,000 with software adjustment)
Output Signal	0-5VDC and 4-20mA or 0-10VDC and 4-20mA
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
Approvals	EMC-Directive 89/336/EEC / RoHS-Directive 2002/95/EG

Carbon Dioxide



Attributes: •Internal automatic selfdiagnostics

- Multiple Outputs: 0-5VDC, 0-10VDC, and 4-20mA (See order grid)
- •15 year life expectancy
- •No field calibration required
- ●LCD option

Applications:

- •Large office buildings
- •Schools / gymnasiums
- Shopping Malls
- Convention Centers
- Demand Control Ventilation
- Theatres
- •Restaurants

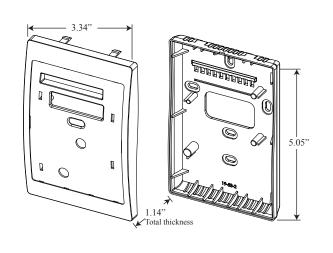
Automation Components, Inc. 2305 Pleasant View Rd. Middleton, WI 53562 PH: (608) 831-2585 FAX: (608) 831-7407 INTERFACE DEVICES

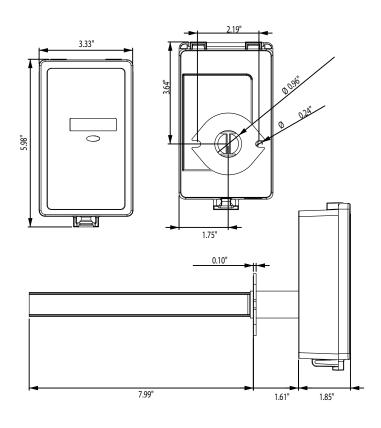
Wiring Diagrams available at www.workaci.com

Dimensions

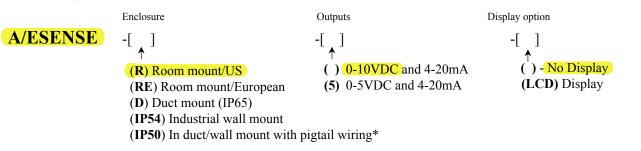
Room

Duct





Ordering Information



*Not available with LCD option

Examples: A/ESENSE-R-LCD or A/ESENSE-IP50-5

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)





TEMPERATURE

RELATIVE HUMIDITY