



AirSense™ Model 305e OEM Infrared Carbon Dioxide Sensor



Compact

Easily Integrated

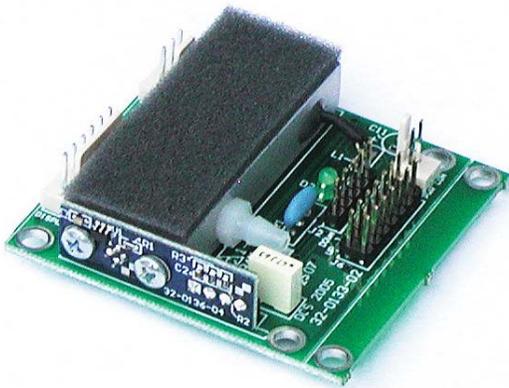
Linear output available

Low Power Consumption

Affordable and Ease of Installation

The *AirSense™* Model 305e is a proven commercial non-dispersive infrared (NDIR) CO₂ concentration measurement subsystem designed for the OEM market: it provides equipment manufacturers the ability to integrate IR CO₂ sensing capability into a wide range of products. Specifically designed for embedded applications, the microprocessor-based Model 305 is the easiest and most cost-effective way to add CO₂ measurement to your product line.

Until now, the only way to include CO₂ measurement capabilities in a product was to purchase a completely freestanding unit, often designed for an unrelated application, and then design around it. With the Model 305e, developers can easily design the CO₂ sensing functionality directly into their electronics, rather than tacking it on as an accessory. The Model 305e's single small circuit board is just another component easily integrated into your product.



Single Gas Smart Calibration

The *AirSense™* Model 305e's automated single gas verification makes field calibration a snap, and its superior design means significantly longer intervals between calibration. Technicians in the field can now easily calibrate the M305 simply by removing the port cap, plugging in the 2000 ppm cal gas (available from factory).



Easy to install and support.

The *AirSense™* Model 305e is easy to use: the linear measurement output is available as an analog voltage. Calibration can be easily performed with the jumpers and buttons on the module through logic inputs driven by the host electronics, or directly from operator-actuated switches. An optional four-digit LED concentration display module can be connected to the digital interface.

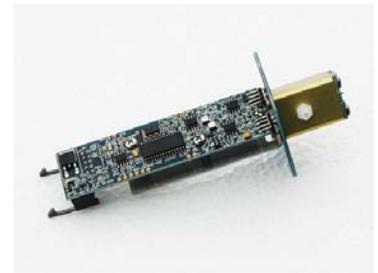
Parameter	Value
Operating Principle	Non-dispersive infrared (NDIR)
Gas Sampling Method	Diffusion
Measurement Range	0-2500 ppm (Other Ranges Optional by Request)
Repeatability	± 20 ppm CO ₂
Measurement Accuracy	± 30 ppm + 2% of reading
Recommended Calibration Interval	5 year
Warm Up Time	Less than 1 minute
Power Requirements	4.75 to 5.25 VDC @ .05 Amps (average)
Power Consumption	Less than 1 watt
Operating Temperature Range	10 - 50° Celsius
Operating Humidity Range	0 - 95% RH, non-condensing
Voltage Output (linear)	0 - 2.5 VDC full scale
Calibration	Single gas calibration
Dimensions	2.19 x 2.21 x .572 inches

DCS CO₂ Family



Model 300

OEM CO₂ % Applications



Model 400

OEM CO₂ High R/H Applications



Model 320

Ductmount Applications



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