TELAIRE®

T3000 Series

Telaire Range of CO_2 Sensors for Harsh Environments

The T3000 series is a range of sensors designed to meet the specific needs of customers who require measuring Carbon Dioxide in harsh or difficult environments. Based on a series of modules the casing offers a number of combinations to meet the needs of range, supply voltage, and output type in a range of applications. Example applications include incubators, buses, refrigerators, subway stations, and railway carriages.

Features

- Accurate carbon dioxide transmitter for HVAC control applications
- Easy mount with 2 external tabs.
- Rated up to IP67 (build dependent)
- Available with potting
- Different calibrations available up to 20% CO_2 concentration
- Analogue or digital output options
- Non-Dispersive Infra-Red measuring technology
- Sensors are shipped factory calibrated
- Accuracy for 10 year life
- Extended operating temperature range

Amphenol

Advanced Sensors

Carbon Dioxide ABC Logic™ Self Calibration

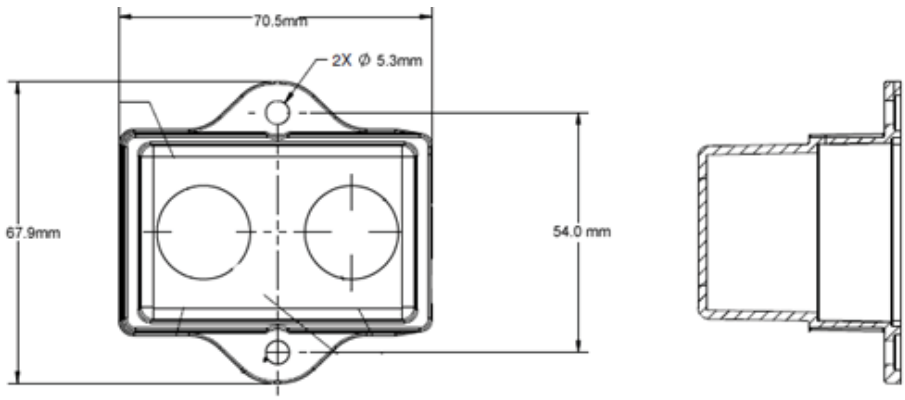
The single wavelength sensors employ the patented ABC (Automatic Background Calibration) Logic self-calibration system. ABC Logic virtually eliminates the need for manual calibration in applications where the indoor CO2 level drops to outside levels during unoccupied periods (e.g. during evening hours). ABC Logic is a special software routine in the sensor that remembers the background readings for 14 consecutive evenings, calculates if there is a sensor drift, and then corrects for it.

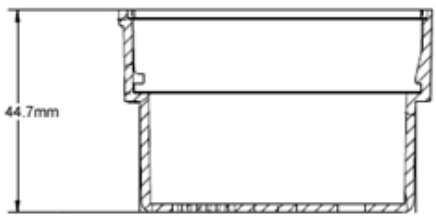
With ABC Logic enabled, the sensor will typically reach its operational accuracy after 25 hours of continuous operation at a condition that is exposed to ambient reference levels. Sensors will maintain accuracy specifications with ABC Logic enabled, given that it is at least three times in 14 days exposed to the reference value and this reference value is the lowest concentration to which the sensor is exposed.

Note: Applies when used in typical indoor ambient air. Consult Telaire if other gases or corrosive agents are part of the application environment.

CO_2 Calibration Guarantee

Telaire is serious about minimizing maintenance, so each single-wavelength sensor comes with a lifetime calibration guarantee. And each dual wavelength sensor has a two-year calibration guarantee.





Ordering Information

Please discuss your specific needs with the Telaire account management team, as many configurations are possible. Some combinations are already in production.

Derivatives include lesser ingress protection, higher fire and smoke ratings, different outputs, and different calibration levels.

Output Options:

Digital	Analogue
Modbus	0-5V
UART	0-10V
	4-20mA

Measuring Technology Options:

Single Wavelength with ABT Logic for HVAC Applications
Dual Wavelength for 24/7 Applications

Materials:

Materials to Railway Specifications, or room environment specification, with or without potting.

Available Calibrations:

0-2K	0-5K	0-50K	0-200K
0-3K	0-10K	0-100K	ppm by volume

Power Supply Options:

15 Vdc supply
24V nominal supply

Amphenol
Advanced Sensors

www.telaire.com

www.amphenol-sensors.com

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