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MADE IN USA



NFC phone compatible



## Model 380

BACnet or Modbus Networked CO<sub>2</sub> Sensor/Transmitter with Relay

### FEATURES

#### Supports BACnet MS/TP and Modbus RTU & ASCII protocols

Protocol selected and easily configured with the free NEARcom app for Apple and Android phones.

#### Menu-Guided Network Setup

Network protocols can be complex: the Model 380's NEARcom app makes configuring the multiple parameters for BACnet or Modbus easy and far less error-prone.

#### Unpowered Configuration

The network parameters of a Model 380 can be scanned, reviewed, and completely configured on the workbench prior to installation.

#### Remote or Locally Controlled Relay

The flexible relay can be used as a local setpoint alarm contact or a general-purpose network-controlled output.

#### Dual Beam NDIR Sensor

Dual beam technology provides accurate and long-term stable CO<sub>2</sub> readings.

#### Sub-Micron Particle Filter

A sub-micron particle filter ensures continued accuracy, even in dirty environments.

### irSense M380 CO<sub>2</sub> Sensor

#### SIMPLY SMART

The Model 380 is a single-point, BACnet, or Modbus-network-capable CO<sub>2</sub> sensor/transmitter in a compact stylish enclosure. It is designed for a wide range of applications, offering easy installation, long-lasting accuracy, and a low life-cycle cost.

The Model 380 is equipped with patented NEARcom technology that allows it to be fully configured using an Apple or Android phone with the free NEARcom app. By briefly holding the phone over the Model 380, the installer can inspect or modify network parameters. The NEARcom app guides the installer through the process of filling in the required data fields for the chosen network protocol, making configuration simple, intuitive, and error-free.

The NEARcom app enables the installer to inspect and change network parameters of the Model 380, whether the unit is already installed and operating or completely unpowered and disconnected. Additionally, the Model 380 can be fully pre-configured in the box while unpowered, which streamlines later site installation and reduces the amount of work required. All that's left is to land wires.

The Model 380 features a dual-beam sensor that provides robust long-term accuracy and supports a five-year calibration interval. It also includes a 0.5-micron dust filter that ensures accurate measurements even in dirty environments. The Model 380 offers a reliable and cost-effective solution for networked CO<sub>2</sub> measurement.

## Get more for less!

The Model 380 networked CO<sub>2</sub> sensor is expertly designed for effortless installation, hassle-free configuration, robust accuracy in all building occupancy profiles, and exceptional durability, even in harsh environments.

It operates on a wide range of input voltages (AC or polarity independent DC), accommodating most low-voltage systems, and features pluggable screw-terminal connectors for easy wire landing. The termination resistor is controlled using a single jumper, simplifying the setup process.

The patented NEARcom technology provides a user-friendly virtual front panel interface for network configuration, allowing easy adjustment of numeric parameters and entering the descriptive strings required for network integration.

The sensor's dual beam NDIR detection system delivers accurate measurements in all building occupancy profiles, while the sub-micron particle filter ensures long-lasting precision, even in dirty environments.

## Made in America

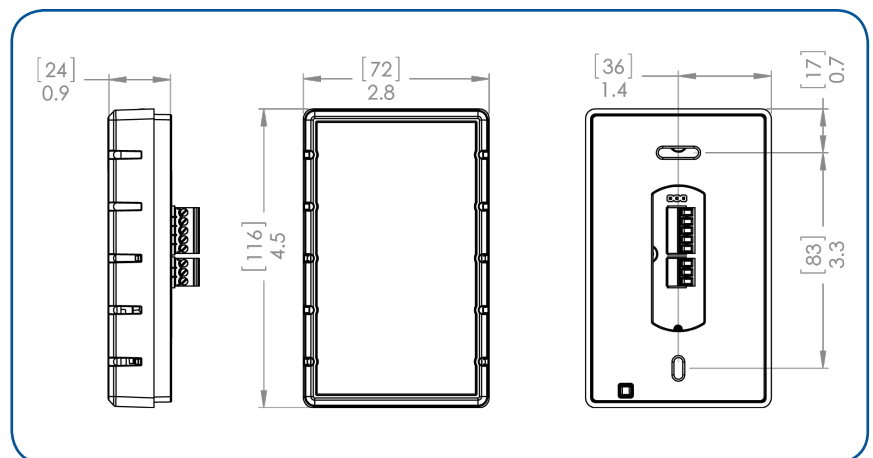
AirSense *always has been, and always will be* designed and manufactured in the USA!

## Proudly Engineered and



Assembled in the USA

| Parameter                                    | Value  |
|--|--|
| Communication protocols                      | BACnet MS/TP<br>Modbus RTU and ASCII                         |
| Support Baud rates                           | 9600, 19200, 38400, 76800, 115200                            |
| Sensor Operating Principle                   | Dual beam non-dispersive infrared (NDIR)                     |
| Gas Sampling Method                          | Diffusion  |
| Measurement Range                            | 0-5000 ppm   |
| Repeatability                                | ± 20 ppm CO <sub>2</sub>                                     |
| Measurement Accuracy [Typical 400 - 5000ppm] | ± 30 ppm ± 2% of reading                                     |
| Calibration                                  | One point: single gas calibration                            |
| Recommended Calibration Interval             | 5 years  |
| Warm-up Time                                 | Less than 1 minute   |
| Power Requirements                           | 15 - 30 VDC or 18 - 28 VAC RMS                               |
| Power Consumption                            | Less than 2W   |
| Operating Temperature Range                  | 32 - 122 °F (0 - 50 °C)                                      |
| Operating Humidity Range                     | 5 - 95% RH, non-condensing                                   |
| Enclosure Dimensions Mounting                | 4.5" x 2.8" x 1.0" (116 x 72 x 25 mm)<br>wall mounting       |
| Enclosure Material                           | White satin finish, ABS UL 94 V-O flammability rated plastic |
| Relay  | SPDT, dry contact, UL rated, 2A at 24VDC                     |
| Warranty                                     | 7 years on electronic components,<br>3 years on NDIR sensor  |



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App



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