

## Non-Dispersive Infra Red (NDIR) CO<sub>2</sub> Measurement with ABC Logic

The GS and TA Series CO<sub>2</sub> sensors use NDIR technology to determine the CO<sub>2</sub> level. NDIR uses an infra-red light source through a patented wave guide that filters the infra-red signature of the CO<sub>2</sub> gas to a thermopile receiver. Automatic background calibration (ABC logic) ensures years of calibration free performance when enabled. ABC logic essentially uses the unoccupied CO<sub>2</sub> level over an extended period of time to adjust the calibration of the sensor. ABC logic should not be enabled if the facility does not have unoccupied periods of operation.

GreenTrol CO<sub>2</sub> sensors are available in wall and duct mount models, with some models having additional sensing capability.

### GS-N100-W CO<sub>2</sub> Sensor - Wall Mount

The GS-N100-W is a high performance CO<sub>2</sub> sensor in an attractive enclosure. It is ideal for today's demanding DCV applications. The GS-N100-W time-tested and reliable BACnet MS/TP and Modbus RTU firmware is superior to competitive CO<sub>2</sub> sensors. Its reliability makes it the only approved network wall mounted CO<sub>2</sub> sensor for GreenTrol outdoor air controllers.



### GS-N300-W CO<sub>2</sub>/RH/Temperature Sensor - Wall Mount

The GS-N300-W is essentially the GS-N100-W package with the addition of a relative humidity and space temperature sensor.



### GS-N100-D CO<sub>2</sub> Sensor - Duct Mount with Pitot Sampling Tube

The GS-N100-D is a high performance CO<sub>2</sub> sensor that comes with a pitot sampling tube that is inserted into a duct. It is provided with tubing and an inline filter that allows the pitot tube to sample from return air ducts for DCV applications. The GS-N100-D time-tested and reliable BACnet MS/TP and Modbus RTU firmware is superior to competitive CO<sub>2</sub> sensors. Its reliability makes it the only approved network duct mounted CO<sub>2</sub> sensor for GreenTrol outdoor air controllers.



### TA-A8041/42-D CO<sub>2</sub> Sensor - Duct Mount Probe

The TA-A8041-D and TA-8042-D CO<sub>2</sub> sensors are designed to be mounted through the side of a duct or plenum. The sensor is typically mounted in the return air duct or plenum near or at the air handler prior to the introduction of outdoor air. The sensor outputs a 0-10 VDC signal for CO<sub>2</sub> and is compatible with any GreenTrol controller that accepts an analog output CO<sub>2</sub> sensor.



## TA-A8031-D CO<sub>2</sub> Sensor - Duct Mount Module

The TA-A8031-D CO<sub>2</sub> sensor is designed to be mounted inside of a duct or plenum. The sensor is typically mounted in the return air duct or plenum near or at the air handler prior to the introduction of outdoor air. The sensor outputs a 0-10 VDC signal for CO<sub>2</sub> and is compatible with any GreenTrol controller that accepts an analog output CO<sub>2</sub> sensor.

