GreenTrol Automation Inc.

GreenSens GS and TA Series

CO_2 Measurement

Series Overview

Non-Dispersive Infra Red (NDIR) CO_2 Measurement with ABC Logic

The GS and TA Series CO_2 sensors use NDIR technology to determine the CO_2 level. NDIR uses an infra-red light source through a patented wave guide that filters the infra-red signature of the CO_2 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_2 level over an extended period of time to adjust the calibration of the sensor. ABC logic should not be enabled if the facility doe not have unoccupied periods of operation.

GreenTrol CO_2 sensors are available in wall and duct mount models, with some models having additional sensing capability.

GS-N100-W CO_2 Sensor - Wall Mount

The GS-N100-W is a high performance CO_2 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_2 sensors. Its reliability makes it the only approved network wall mounted CO_2 sensor for GreenTrol outdoor air controllers.

GS-N300-W CO_2/RH/Temperature Sensor - Wall Mount

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

GS-N100-D CO_2 Sensor - Duct Mount with Pitot Sampling Tube

The GS-N100-D is a high performance CO_2 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_2 sensors. Its reliability makes it the only approved network duct mounted CO_2 sensor for GreenTrol outdoor air controllers.

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