



ANALOG OR DIGITAL GAS DETECTORS DATASHEET

cGas DETECTOR Carbon Dioxide (CO₂)

FIXED SYSTEMS



The cGas Detector Carbon Dioxide Transmitter is a low maintenance gas monitoring device designed for use in non-explosion rated, commercial applications that require continuous monitoring of CO₂.

It offers one 4-20 mA analog output or a user selectable in the field digital output with your choice of BACnet® or Modbus® for communicating with a Building Automation System or ventilation controller. Ideal for use for applications where compressed CO₂ is used and stored, climate control in commercial buildings and other processes requiring the continuous monitoring of CO₂.

Powered by 24 VDC or ground referenced AC, the CO₂ cGas Detector has an LCD display, temperature compensation and the firmware and configuration can be upgraded in the field using the USB connection. Pre-calibrated sensors with true Plug & Play Smart Sensor technology makes replacing sensors quick and easy.

The cGas CO₂ Detector comes in a standard water / dust tight, corrosion resistant ABS/ polycarbonate enclosure with a hinged, secured door. With the optional, factory installed splash guard the enclosure is IP54 rated and provides protection in water spray or wash down applications.

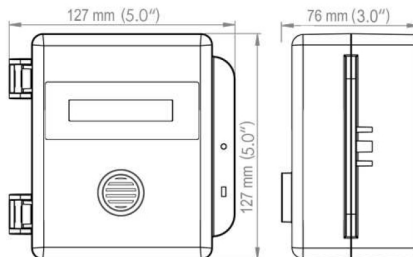
KEY FEATURES

- » One 4-20 mA analog output or user in the field configurable BACnet® MS/TP RS-485 or Modbus® RTU RS-485 digital output signal to a BAS
- » Easy Plug & Play Smart Sensor replacement at end of life, comes pre-calibrated
- » Bright LCD display
- » USB port for configuration changes and firmware upgrades
- » Optional RH & Temperature sensor (Option -RHT)*
- » Standard water / dust tight, corrosion resistant enclosure (drip proof); IP54 rated with optional splash guard installed
- » 24 VDC or VAC power (ground referenced)
- » RoHS compliant circuit board

APPLICATIONS

- » Greenhouses
- » Wineries / Breweries
- » Marine Vessels
- » Fruit Ripening Rooms
- » CO₂ Fire Suppression
- » CO₂ Storage Rooms
- » CO₂ Refrigeration Systems
- » Beverage Bottling Facilities
- » ... and many more

TECHNICAL DRAWING



TECHNICAL SPECIFICATIONS

MECHANICAL

Enclosure	Black ABS / Polycarbonate, copper coated interior to reduce RF interference, IP54 rated with splash guard installed
Weight	400 g / 14 oz
Size	127 x 127 x 76 mm / 5.0 x 5.0 x 3.0 in

USER INTERFACE

Display	2-line by 16 character graphic LCD
Push Buttons	Initiate calibration and menu options with internal UP, DOWN and ENTER push buttons
USB Port	Internal port for USB memory stick for field configuration updated / firmware upgrades

INPUT / OUTPUT

Digital Output (CGAS-D models)	BACnet® MS/TP (version 1 rev 14) RS-485 or Modbus® RTU (version 1.1b3) RS-485 (user configurable in the field)
1 Analog Output (CGAS-A models)	Linear 4-20 mA
RH & Temperature	Option -RHT* user selectable units DegC, DegF