



DIGITAL GAS DETECTORS DATASHEET

cGas DETECTOR Digital Transmitter

FIXED SYSTEMS



The cGas Detector is a digital transmitter that offers great flexibility at a lower cost with customized sensor combinations and specialized options for adding only the functionality you need. It can be configured with one or two gas sensors and is ideal for monitoring toxic, combustible and refrigerant gases in commercial and light industrial, non-hazardous (non-explosion rated) environments.

BACnet® or Modbus® output for communicating with a Controller or a Building Automation System is user selectable in the field. Pre-calibrated sensors with true Plug & Play Smart Sensor technology makes replacing sensors quick and easy. Powered by 24 VDC or ground reference AC, the digital cGas Detector has an LCD display, temperature compensation and the firmware and configuration can be upgraded in the field using the USB connection. Optional features include, RH and temperature monitoring, low temperature operation, relay and wash-down / water spray protection. The digital cGas 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 (Option -S) the enclosure is IP54 rated and provides protection in water spray or wash down applications.

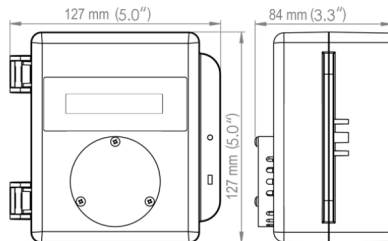
KEY FEATURES

- Up to 2 gas channel configurations
- Field configurable BACnet® MS/TP RS-485 or Modbus® RTU RS-485 digital output signal
- Easy Plug & Play Smart Sensor replacement at end of life
- Bright LCD display
- USB port for configuration changes and firmware upgrades
- Optional RH & Temperature sensor (Option -RHT)*
- Optional 2A SPDT dry contact relay (Option -RLY)*
- Optional low temperature operation package (Option -LT)*
- Optional factory installed splash guard (Option -S or Option -SN)
- Standard water / dust tight, corrosion resistant enclosure (drip proof)
- Sensor Calibration Extending Firmware (CEF) for parking applications

APPLICATIONS

- Parking Garages/Car Parks
- Vehicle Repair Shops
- Ice Arenas
- Commercial Pools
- Battery Charging Rooms
- Manufacturing Plants
- Maintenance Facilities
- ... and many more

TECHNICAL DRAWING



NOTE: Drawing above is shown with the splash guard (Option -S). Without the splash guard, the thickness of the unit is 76 mm / 3.0". With the sticky gas splash guard (Option -SN), the thickness of the unit is 123 mm / 4.86".

TECHNICAL SPECIFICATIONS

TARGET GAS

Electrochemical - Ammonia, Carbon Monoxide, Chlorine, Chlorine Dioxide, Ethylene, Ethylene Oxide, Formaldehyde, Fluorine, Hydrogen, Hydrogen Sulphide, Hydrogen Chloride, Hydrogen Cyanide, Hydrogen Fluoride, Nitrogen Dioxide, Nitric Oxide, Oxygen, Ozone, Phosphine, Silane, Sulphur Dioxide

Combustibles (catalytic) - Hydrogen, Methane, Propane

Infrared - Carbon Dioxide

Solid State - R22, R134A, R402A, R404A, R407C, R410A, R422D, R438A, R507A, TVOC

PID - TVOC

MECHANICAL

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

USER INTERFACE

Display (standard)	2-line by 16 character graphic LCD Operating Temp: 0°C to 40°C / 32°F to 104°F
Display (low temp) (Option -LT)	2-line by 16 character OLED display Operating Temp: -40°C to 40°C / -40°F to 104°F
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

Output (user configurable)	BACnet® MS/TP (version 1 rev 14) RS-485 or Modbus® RTU (version 1.1b3) RS-485
RH & Temperature	Option -RHT* user selectable units DegC, DegF
Relay	Option -RLY* one SPDT dry contact relay, rated 30 volts, 2 amps max

ELECTRICAL

Power Requirement	16-30 VDC, 3W, Class 2 12-27 VAC, 50-60 Hz, 3 VA, Class 2
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