AGS

AMERICAN GAS SAFETY

AGSCO2X Datasheet

Carbon Dioxide & Temperature Monitor

Dual Power
100-120V AC OR
12-24V AC / DC

Clear TFT Screen
Displays Live Gas Levels & Status Indications

Automatic Drive Ventilation Fans To Reduce CO2 / Temperature

BMS & Fire Panel Connectivity

Modern & Compact Design

Three Alarm Relays & 0-10VDC Output
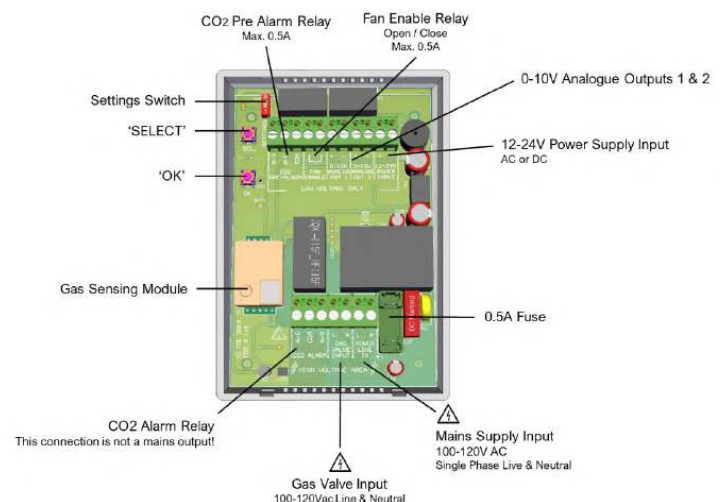
Plug & Play Installation

Boost, Mute & Wake Up Button

Product Overview

The AGS CO2 X is designed to monitor carbon dioxide (CO_2) in the air, local temperature and can be used to provide not only a clean breathing air environment but also an energy saving solution. The AGS CO2 X Monitor is a wall mounted CO^2 and temperature monitor that provides precise, easy to read measurements in a single device. Using relays and 0-10vdc outputs the unit can interface with all modern BAS systems. The continuous CO^2 self-recalibration feature eliminates the need for routine maintenance.

Popular Applications

Circuit Board Overview

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General	
Product:	CO2-X
Indicators (1.8" TFT Screen)	Green (Safe), Yellow (Special State) & Red (Alarm). Detected CO2 Level. Time Weighted Average CO2 Level (TWA). Temperature. Mute. Ventilation Boost Active. End of Life.
Screen Brightness	Low – Medium – High (Plus Screen Saver)
Mounting	Wall Mounting

Electrical	
Max. Power Consumption	2.16W
Power Voltage Input Range	110-120V AC 50-60Hz or 12-24V AC/ DC (Nominal 24V AC/DC Max)
Gas Valve Input	100–120vac
CO_2 Pre Alarm Relay Output	Max 0.5A Signal
CO_2 Alarm Relay	Max 3A @ 240V
Fan Enable Relay Output	Max 0.5A Signal
Terminal Wire ratings	Copper 18AWG (0.75mm2) Min. 14 x screw terminals.
Internal Fuse	0.5A / 250V AC

Construction	
Dimensions (H x W x D)	140 x 95 x 30mm / 5.51 x 3.74 x 1.18"
Unit Weight (Approx.)	0.08kg
Housing Material	Polylac - PA765

Environmental	
Ingress Protection	IP40
Storage Conditions	Dry. Temp: -10 ~ 50°C / 14~ 122°F : 30 ~ 80% rh

Compliance	
CE	EN 50270 / EN 61010-1

Temperature Sensor Specification	
Sensor Type	Linear Active Thermistor Integrated Circuit
Measuring Range	0-95 °C / 0-203°F
Accuracy @ 25°C / 77°F	± 2°
Resolution	0.1 °C/°F

Carbon Dioxide Sensor Specification	
Factory Conditions	25° ± 5°C - 77° ± 41°F (40-70% RH)
Sensor Operating Temperature	-10C° ~ 50°C (14 ~ 122°F)
Sensor Operating Humidity	Continuous 30-80% rh Non-Condensing
Sensor Operating Pressure	Normal Atmospheric Pressure ± 10%

Gas Sensor	Indicating Range	Steps	Accuracy	Response (t90)	Ventilation	Alarm: 1 (Pre alarm relay)	Alarm: 2 (Latching relay)	*EOL (Years)
NDIR. Intelligent Infrared CO2 Module. ABC Logic Auto Calibration								
Carbon Dioxide (CO2)	400-5000ppm	1	±100ppm	<90s	Kitchen	▲2800ppm	▲4500ppm	10
					Natural	▲1300ppm	▲1500ppm	
					Mechanical	▲800ppm	▲1000ppm	

Area of coverage

Consider the coverage required and function of the area. Emphasis should be placed on airflow patterns and correct placement, not perceived detecting ranges. The target gas will only be identified when contact is made with the sensing element itself.

Your monitor should be installed in populated areas that risk high concentrations of CO2 gas or varied temperatures e.g. educational and government building including laboratories and commercial kitchens.

Find out more

American Gas Safety LLC

www.americangassafety.com

Head office:
6304 Benjamin Road, Suite 502, Tampa, FL 33634

Tel: (727) 608-4375
Email: info@americangassafety.com