SAE-1100 Series
Carbon Monoxide (CO) Detectors

Description

The KMC SAE-1100 Series environmental, industrial and commercial indoor Carbon Monoxide (CO) gas detector are available in both space and duct mount versions.

The SAE-1100 Series sense and transmit to any compatible electronic analog control, KMC controller or automation system for the control of ventilation equipment.

Features

- Electrochemical sensing elements
- Optional on board relays with field adjustable trip point.
- Optional Audible Alarm
- Powered by either AC or DC source with no change to circuit required.
- Choice of three field adjustable analog output signals, linearized over full range.

Models

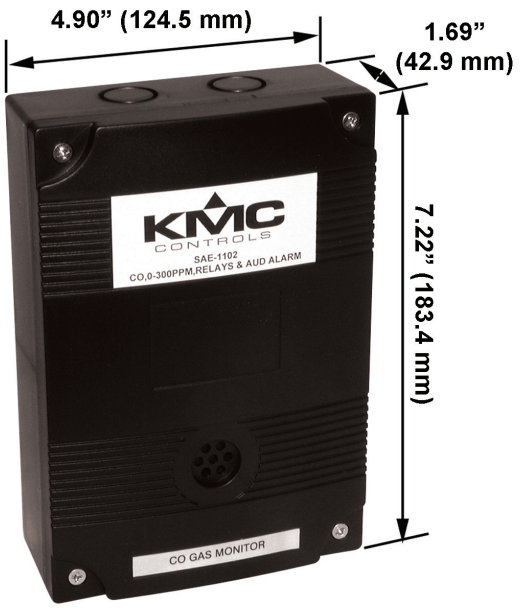
Thes models are available in the following configurations:

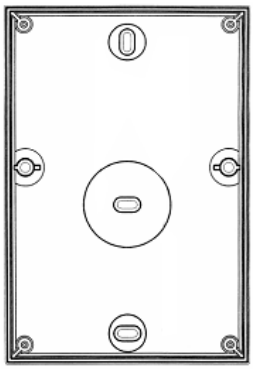
SAE-1101	Space CO Sensor 0 to 300 ppm 7% Accuracy
SAE-1102	Space CO Sensor w/ relays & Audible Alarm, 0 to 300 ppm 7% Accuracy
SAE-1151	Duct CO Sensor 0 to 300 ppm 7% Accuracy
SAE-1152	Duct CO Sensor w/ relays & Audible Alarm, 0 to 300 ppm 7% Accuracy

Application

Any industrial or commercial indoor environment where accurate Carbon Monoxide (CO) detection is required.

Enclosure





Specifications

Gas Detected	Carbon Monoxide (CO)
Range	0 to 300 ppm electrochemical
Standard Accuracy	±7% of reading for 0 to 300 ppm with electrochemical (7%) 41° to 113°F (5° to 45° C), 15 to 95% RH
Sensing Element	Electrochemical
Operation Conditions	32° to 122 °F (0° to 50°C), 15 to 95% RH non-condensing
Sample Method	Diffusion or flow through, sample tube for duct
Stability	< 5% signal loss/year
Manufacturing Process	ISO 9001 certified
Output Signal	4 to 20 mA active or passive, 0 to 5 VDC or 0 to 10 VDC jumper selectable
Output Drive Capability	Active current output: 750 ohms max Passive current output: 1000 ohms max @ 24 VDC 10K ohm min. for voltage output
Output Resolution	10 bit PWM

Specifications (cont.)

External Dimensions	ABS Space: 7.2"H x 4.9"W x 1.7"D (124.5 x 183.5 x 43 mm) Duct ABS: 7.2"H x 4.9"W x 9.9"D (124.5 x 183.5 x 250.5 mm) includes duct insertion tube
Pressure Coefficient	0.020 ± 0.008% signal/mBar
Typical Coverage Area	7500 ft^2 (700 m^2)
Response Time	< 30 seconds for 90% step change
Warm-up Time	200 seconds
Power Supply	20-30 VAC/DC (non-isolated, half-wave rectified)
Consumption	100 mA max @ 24 VDC with all options on 200 mA max @ 24 VAC with all options on
Input Voltage Effect	Negligible over specified operating range
Protection Circuitry	Reverse voltage protected and output limited Transient protection and resettable fuse
Optional Relay Output	One or two Form C contact (N.O. and N.C.), status LED's, 5 amps @ 250 VAC, 5 amps @ 30VDC, p.f. = 1 Relay Trip Point: Programmable 10, 15, 25, 50 or ppm increments Relay Hysteresis: Programmable 25 to 200 ppm in 25 ppm increments
Programming and Selection	Via internal push-buttons and jumper
Wiring Connections	Screw terminal block (14 to 22 AWG)
Weight	1.05 lbs. (.47 kg)

KMC Controls, Inc.
19476 Industrial Drive
New Paris, IN 46553
574.831.5250
www.kmccontrols.com