580 Series Carbon Monoxide Detector

The 580 Series Explosion Proof Carbon (CO) Monoxide Gas Monitor accurately measures low levels of toxic and combustible gases in 0-100 parts-per-million (PPM). The CO Gas Monitor is ideal for environments where carbon monoxide is used, stored, may accumulate, or is present during production processes. Featuring an RS-485 interface, the monitor can be easily connected to multiple gas monitors, a variety of CONCOA pressure and flow controls for emergency shut-off, or connected to a facilities existing programmable Logic Controller (PLC). This ensures reliable centralized monitoring and the precise locations of a detected leak across a fully networked installation.



580 3021-01-1 shown

Typical Applications

- Research and Development
- Oil and Gas Industries
- Wastewater Treatment Facilities
- Semiconductor Fabrication
- Biotechnology and Pharmaceutical Laboratories

Features

Digital LCD Display indicates current gas concentration level

Smart Electronics monitor sensor operation continuously and alerts user to sensor faults

Magnetic Wand Interface allows safe access to menus and settings without opening the enclosure

Built-in Environmental Compensation maintains accuracy regardless of varying environmental conditions

Rugged Explosion-proof Enclosure prevents internal explosion from escaping the instrument

User-adjustable Alarm Relays allow user to modify alarm thresholds for flexible system integration

Flow Control Microprocessor continually monitors and controls sample flow to the monitor

Built-in Non-latching Alarm resets automatically when oxygen levels return to above the alarm threshold

Optional Remote Digital Alarm Indicator mirrors the monitor's display to provide remote system status and alarm information

Materials and Specifications

Sampling Method: Diffusion

Gases Detected: Carbon monoxide (CO)

Display: Back-lit LCD

Range: 0-100% PPM

Response Time: < 60 seconds

Sensor Type: Electrochemical (EC) sensor

Sensor Life: 3-5 years under normal conditions

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Materials and Specifications

Analog Output: 4-20 mA

Relay Outputs: Two user-settable alarm relays and one fault relay rated 2A @ ≤ 24 VDC

Power Requirement: 24 VDC, 200mA (power adapter not included)

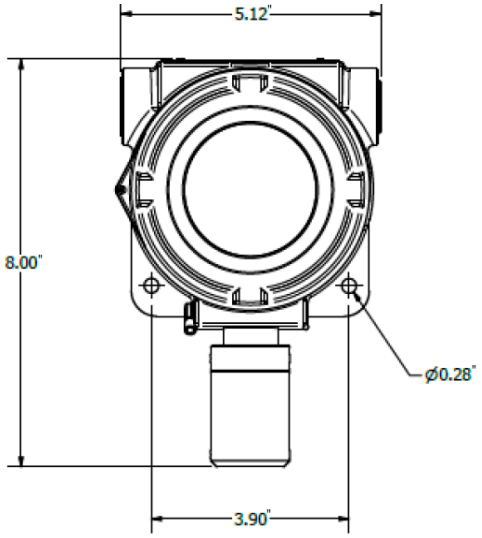
Operating Temperature: -4°F to 122°F (-20°C to 50°C)

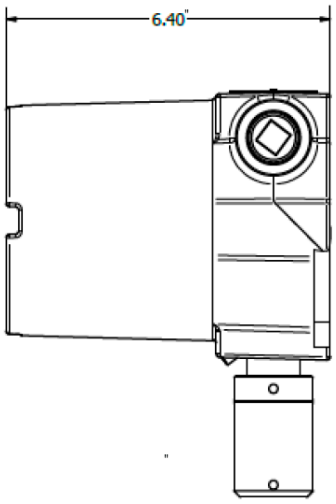
Enclosure: NEMA 4X; Class I Div 1&2 Groups B, C, D, Class II Groups E, F, G, Class III

Weight: 6.5 lbs. (3 kg)

Conformances: UL/cUL; IP66 (enclosure)

Installation Dimensions





Ordering Information

Part No.	Description
580 3021-01-1	580 Series Carbon Monoxide PPM Detector/Transmitter (power supply cable required, not included)
580 3045-01-1	Remote Display Alarm Indicator (for use with 580 3021-01-1 Carbon Monoxide PPM Detector/Transmitter only)
835-5205-01-1	Power Supply Cable (24 VDC, 250mA) for 580 3020-01-1 and 580 3021-01-1 Detector/Transmitters
835-5206-01-1	Extender Cable for 580 3020-01-1 and 580 3021-01-1 Detector/Transmitters
835-5207-01-1	Signal Cable Assembly for 580 3020-01-1 and 3580 3021-01-1 Detector/Transmitters

Related Options

Part No.	Description
580 3006	Horn and Strobe; red light; 82-100 dB @ 10 ft (92-110 dB @ 1 m)
580 3006-A	Horn and Strobe; amber light; 82-100 dB @ 10 ft (92-110 dB @ 1 m)
580 3006-B	Horn and Strobe; blue light; 82-100 dB @ 10 ft (92-110 dB @ 1 m)
580 3058-01-1	8-channel Controller for 580 Series Gas Detectors and Oxygen Monitors
580 3099-01-1	Calibration Gas Cap (for use with 580 3020 Universal LEL Gas Detector and 580 3021 Carbon Monoxide PPM Detector only)