

580 SERIES FLAMMABLE GAS DETECTOR



The 580 Series Flammable Gas Detectors continuously monitor toxic gas levels in parts per million (ppm) and the lower explosive limit (% LEL) of combustible gases in laboratories, chemical plants, and other areas where poisonous or flammable gases are present. A large LCD indicates real-time gas concentrations, and audible and visual alarms alert personnel when alarm thresholds are exceeded. Two factory-set alarm levels, configured at 20% and 40% LEL, ensure notification before an emergency. The monitor includes analog and digital outputs for integration with a CONCOA 585 Series Emergency Shut-Off Controller, remote display, 4- or 8-channel controller, horn and strobe, or building monitoring system.

Typical Applications

- Atomic Absorption
- Heat Treatment
- Gas Chromatography



5803012-01-1 shown

Features

Digital LCD Display indicates current gas concentration level

Fault Supervision Circuitry continuously monitors for failed sensor cell and communication line breaks

Disposable Electrochemical or LEL Catalytic Bead Sensor requires little to no adjustment

Explosion-proof Enclosure prevents internal explosion from escaping the instrument

Materials and Specifications

Gases Detected: Hydrogen Sulfide (H_2S); Methane (CH_4); Carbon Monoxide (CO); Propane (C_3H_8); Acetylene (C_2H_2); and more

Operating Temperature: -40°F to 122°F (-40°C to 50°C)

Display: 68 x 128 pix LCD

Sensor Type: Disposable electrochemical or LEL catalytic bead

Sensor Life: 2-5 years under normal conditions

Signal Outputs: 4-20 mA analog output

Power Requirements: 95mA @ 24 VDC

Enclosure: NEMA 7 Explosion-proof suitable for class 1, division 1 and 2, groups A, B, C, and D

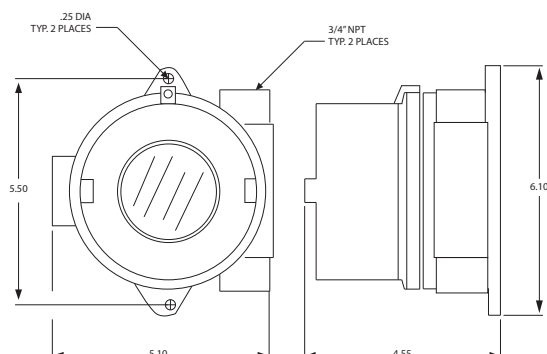
Weight: 4.7 lbs. (2.1 kg)

Conformances: CE approved

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Installation Dimensions



Ordering Information

Part No.	Description
580 3012-01-1	580 Series LEL Detector/Transmitter for Hydrogen/Deuterium (H ₂ /D ₂) 0-100% LEL
580 3013-01-1	580 Series LEL Detector/Transmitter for Methane (CH ₄) 0-100% LEL
580 3014-01-1	580 Series LEL Dual Sensor Head Detector featuring One 0-100 ppm Detector/Transmitter for Carbon Monoxide (CO) and One LEL Detector/Transmitter for General Flammable Gases
580 3015-01-1	580 Series LEL Detector/Transmitter for Propane (C ₃ H ₈) 0-100% LEL
580 3016-01-1	580 Series LEL Detector/Transmitter for Acetylene (C ₂ H ₂) 0-100% LEL
580 3017-01-1	580 Series LEL Detector/Transmitter for Ethane (C ₂ H ₆) 0-100% LEL
580 3018-01-1	580 Series LEL Detector/Transmitter for Ethylene (C ₂ H ₄) 0-100% LEL
580 3019-01-1	580 Series LEL Detector/Transmitter for Butane (C ₄ H ₁₀) 0-100% LEL
580 3044-01-1	580 Series PPM Detector/Transmitter for Carbon Monoxide (CO) 0-100 ppm
580 3046-01-1	580 Series PPM Detector/Transmitter for Sulfur Hexafluoride (SF ₆)
580 3047-01-1	580 Series PPM Detector/Transmitter for Nitrous Oxide (N ₂ O), 0-500 ppm
580 3048-01-1	580 Series PPM Detector/Transmitter for Nitric Oxide (NO) 0-100 ppm
580 3049-01-1	580 Series LEL Detector/Transmitter for Butadiene (C ₄ H ₆) / Isobutane (i-C ₄ H ₁₀)
835 5205-01-1	24 VDC Power Supply Cable Assembly Unit for 580 Series Gas Detector
835 5206-01-1	24 VDC Power Supply Cable Assembly Extender for 580 Series Gas Detector
835 5207-01-1	24 VDC Power Supply Cable Assembly Signal for 580 Series Gas Detector

Related Options

Part No.	Description
580 3045-01-1	580 Series Remote Display Alarm Indicator (only for use with 5803044-01-1 Detector/Transmitter for Carbon Monoxide)
580 3054-01-1	580 Series 4-channel Controller for Gas Detectors and Oxygen Monitors
580 3058-01-1	580 Series 8-channel Controller for Gas Detectors and Oxygen Monitors
580 3098-01-1	580 Series Calibration Gas Cap
580 3006	Horn and Strobe, Red, 82-100 dB @ 10 ft (92-110 dB @ 1 m)
580 3006-A	Horn and Strobe, Amber, 82-100 dB @ 10 ft (92-110 dB @ 1 m)
580 3006-B	Horn and Strobe, Blue, 82-100 dB @ 10 ft (92-110 dB @ 1 m)