

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.



5803012-01-1 shown

Typical Applications

- Oil and Gas Industries
- Refineries and Petrochemical Plants
- Chemical Manufacturing/Research Facilities
- Biotechnology and Pharmaceutical Laboratories

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 (H₂S); Methane (CH₄); Carbon Monoxide (CO); Propane (C₃H₈); Acetylene (C₂H₂); and more

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 Requirement: 95mA @ 24 VDC

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

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

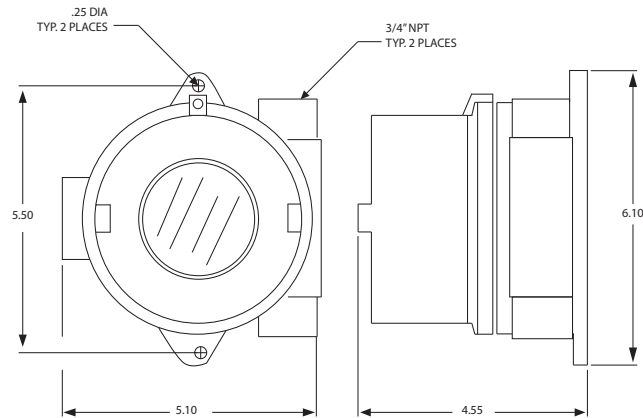
Weight: 1.2 lbs. (0.5 kg)

Conformances: CE approved

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Installation Dimensions



Ordering Information

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

Related Options

Part No.	Description
580 3045-01-1	Remote Display Alarm Indicator (for use with 580 3044-01-1 Carbon Monoxide PPM Detector/Transmitter only)
580 3058-01-1	8-channel Controller for 580 Series Gas Detectors and Oxygen Monitors
580 3099-01-1	Calibration Gas Cap for 580 3030 Toxic and Corrosive and LEL Flammable Gas Detectors
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)