

580 SERIES TOXIC AND CORROSIVE GAS DETECTOR



The 580 Series Toxic and Corrosive Gas Detectors provide protection for laboratories using hazardous gases. A single generic controller is connected to a renewable sensor specific to a particular gas and measurement range. The detector features built-in audible and visual alarms along with analog and contact relay outputs for integration with a CONCOA 585 Series Emergency Shut-Off Controller or building monitoring system. Sensor status is continuously monitored and is easily recharged or replaced.



5803030 shown

Typical Applications

- Atomic Absorption
- Heat Treatment
- Chemical Research Laboratories
- Pharmaceutical Manufacturing

Features

Electrochemical Sensor sets the gas and measurement range automatically

Dedicated Microcontroller stores gas, range, and calibration information

LCD Digital Indicator displays type of gas detected and ppm concentration in, ppb, or percentage

Built-in Audible Horn activates when concentration levels rise above the selected alarm thresholds

Materials and Specifications

Sampling Method: Diffusion

Accuracy: $\pm 10\%$ of full scale

Sensor Type: Renewable electrochemical with built-in microcontroller

Sensor Life: 3-8 years under normal conditions

Response Time: $T_{90} < 60$ sec

Signal Output: Dual level alarm relay contacts

Analog Output: 4-20 mA

Power Requirements: 250mA @ 24 VDC

Operating Temperature: -25°F to 122°F (-32°C to 50°C)

Enclosure: Polycarbonate

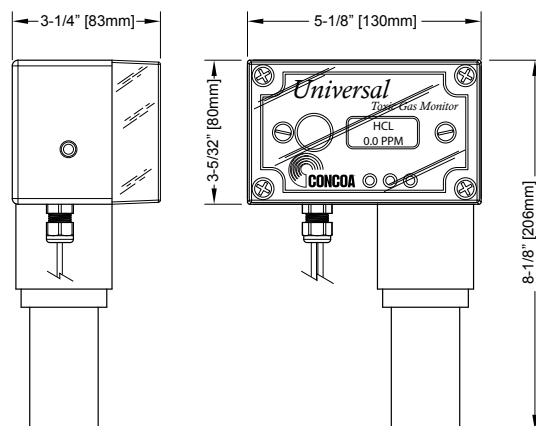
Weight: 1.2 lbs. (0.5 kg)

Conformances: CE approved, UL/cUL

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Installation Dimensions



Ordering Information

Part No.	Description
580 3030	Universal Toxic and Corrosive Gas Monitor Controller (requires specific gas sensor 5803031-5803042, sold separately)
580 3031	Ammonia Sensor
580 3032	Boron Trifluoride Sensor
580 3033	Chlorine Sensor
580 3034	Fluorine Sensor
580 3035	Hydrogen Cyanide Sensor
580 3036	Hydrogen Fluoride Sensor
580 3037	Hydrogen Sulfide Sensor
580 3038	Nitrogen Dioxide Sensor
580 3039	Hydrogen Chloride Sensor
580 3040	Sulfur Dioxide Sensor
580 3041	Diborane Sensor
580 3042	Silane Sensor

Related Options

Part No.	Description
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)