

# 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.



## Typical Applications

- Atomic Absorption
- Heat Treatment
- Chemical Manufacturing/Research Facilities
- Biotechnology and Pharmaceutical Laboratories

## 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 to 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:** T90 < 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

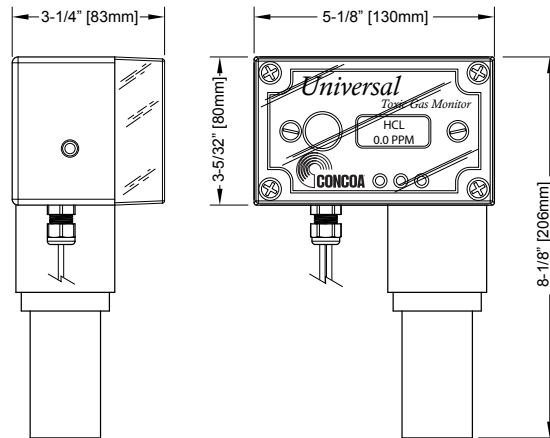
**Weight:** 1.2 lbs. (0.5 kg)

**Conformances:** CE approved, UL/cUL

# 580 SERIES TOXIC AND CORROSIVE GAS DETECTOR



## Installation Dimensions



## Ordering Information

Part No.	Description
580 3030	Universal Toxic and Corrosive Gas Monitor Controller; includes 100 - 240 VAC x 24 VDC AC transformer. 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

*Other gas sensors available; contact CONCOA for more options. Sensors require 580 3030 Toxic Gas Monitor to function (sold separately).*

## 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)