

Stand-Alone Detector is Ideal for:

- Remote Well Sites
- Unmanned Storage Facilities
- Small Municipal Water Systems
- Limited Budgets
- Remote monitoring systems without 4-20mA input

Uses the same rugged high quality gas sensors proven in our detectors for over 20 years

(4) 10A alarm relays for contact input to phone dialers, monitors, external alarm devices and equipment.

Easy to Setup & Use with ample room for wiring

Battery power option

Hinged Cover for Easy Sensor Maintenance

Replaceable, flash upgradable microprocessor

Check alarm status or reset remotely with the FX-400 telephone dialer

Manufactured and assembled in the USA, including the circuit board



FX-Mini Gas Detector

The Foxcroft **FX-Mini** is the latest digital version of our popular all-in-one FX-1 fixed point toxic gas detector. It's designed for those who want reliable gas sensing with only basic alarm notification: LED indicators, audible alarm and relay output; but don't need a 4-20mA output or concentration display.

It's available in two styles:

- The all-in-one FX-Mini
- The FX-Mini-R, put the remote controller in a safe area and the separate gas sensor enclosure in the hazard area

This microprocessor controlled gas detector in a compact 6" x 6" enclosure alerts you to low PPM levels of toxic gas or low oxygen levels in ambient air. Everything you need is included; no additional sensor, transmitter, controller or power supply is required.

Sound design reduces the labor cost needed to produce an economic gas detector in the USA using high quality components.



Features

Available in Two Styles	• Compact all in one, or Remote Controller
(1) Replaceable Electrochemical Gas Sensor	• Toxic Gases, Low Oxygen Levels
(4) 10A Alarm Relays	• (2) Danger, Latching • Warning, Sensor Fail, Non-Latching
LED Indicators	• Danger - Red Flashing • Warning - Orange • Sensor Fail - Blue • Power On - Green
(2) Fixed Alarm Levels	• Danger & Warning
Audible Alarm	• 100 dB buzzer
Silence / Reset	• Sealed Dual Function NC Button
Remote Reset	• Terminal for NC Remote Switch
12 or 24VDC Operating Power	• AC-DC power supply, 88-264VAC 47/63Hz input with 4-ft cord, or optional battery power



FX-Mini Gas Detector

FX-Mini Gas Detector Technical Data

Gas Sensor

3-Electrode, electrochemical fuel cell installed in detector enclosure

Response Time (T90)

<60 Seconds at 20°C. Typically <8 seconds to full alarm

Accuracy: 0.1 ppm (@20 degree C)

Resolution: 0.1 ppm

Long-term Sensitivity Drift: <2% signal loss per month

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

Humidity Range: 15 - 90 % (non-condensing)

Two Gas Alarm Levels, Non-Adjustable

Danger, Warning (based on OSHA, NIOSH and ACGIH recommendation).

Sensor Fail Alarm

Indicates problems with the sensor when output is below a threshold or a break in the sensor circuitry.

LED Visual Alarm Indication

Danger: Red Flashing

Warning: Orange

Sensor Fail: Blue

LED Visual Power On Indicator: Green

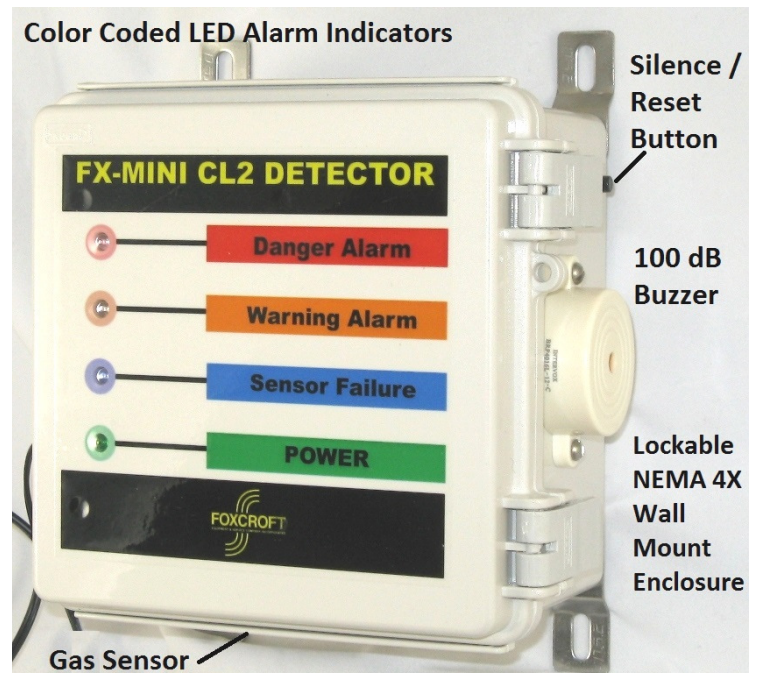
Audible Alarm Notification: 100 dB piezo buzzer

Silence & Reset Button: (1) Dual function NC pushbutton on the controller enclosure, first push silences the buzzer, the second resets alarms & relays if the alarm condition is cleared. Local sensor enclosure supplied with remote units does not have a button.

Operating Voltage: Regulated 12VDC; Ammonia, Ozone and Hydrogen Cyanide detectors 24VDC power supply

Power Supply: by included AC-DC power supply below or 50 amp/hour minimum rated DC battery

AC to DC switching power supply included, 88-264 Volts AC 47/63 Hz input, 12VDC output (24VDC for Ammonia, Ozone and Hydrogen Cyanide), 6W max output power; output current 0.5A; short circuit, over voltage, overload protection; 2 pole USA plug, 4-ft cord, Class II power, Agency Approvals: CE/CUL/CB/FC





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FX-Mini Gas Detector Technical Data

Numerical Display of Concentration: None

4-20 mA Output: None

Alarm Relays NO/NC

(4) 10A SPDT Form C, 10A @125 VAC, 7A @250VAC; 7A @ 28-30VDC, resistive, 12V coil. NOTE: Ammonia, Ozone and Hydrogen Cyanide use 24V coil relays.

(2) factory-set as Danger latching, (1) Warning, non-latching, (1) Sensor Fail, non-latching. The non-latching relays can be re-assigned (by wire re-routing) if additional danger relays are needed

Test Button: None, bump testing with gas is required

Remote Reset: Input terminal provided to connect a remote NC switch to reset the detector

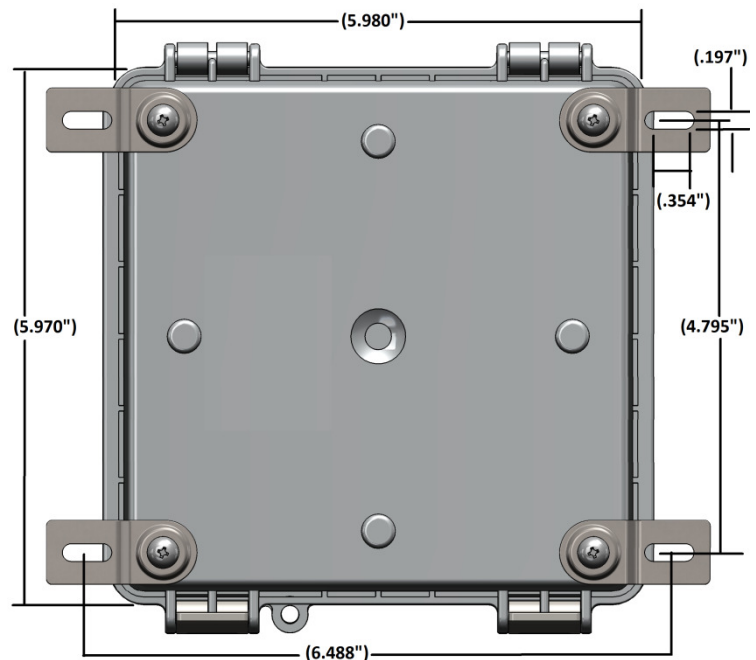
Microprocessor Controlled Electronics: replaceable, flash upgradable microprocessor

Main Enclosure: Hinged door NEMA 4X/IP 66, ABS plastic rated for indoor use, 5.9" wide x 5.9" high x 3.5" deep with stainless steel wall mount feet, plastic hinges and latches. Outdoor rated enclosure Flame Retardant PC/PBT Alloy is available at additional cost.

Local Sensor Enclosure: NEMA 4X, 4" x 4" on 7" square wall mount plate, no test/silence button or alarm LED

Gas Sensors Available

Gas	Standard Range	Danger Alarm	Warning Alarm	Order Code
Chlorine	0-10 ppm	1 ppm	0.5 ppm	CL2
Sulfur Dioxide	0-10 ppm	3 ppm	1 ppm	SO2
Ammonia *	0-100 ppm	50 ppm	35 ppm	NH3
Oxygen	0-25%	16%	18%	O2
Carbon Monoxide	0-500 ppm	50 ppm	35 ppm	CO
Chlorine Dioxide	0-1 ppm	0.3 ppm	0.1 ppm	CLO2
Hydrogen Chloride	0-10 ppm	2 ppm	0.7 ppm	HCl
Hydrogen Cyanide*	0-10 ppm	3 ppm	1 ppm	HCN
Hydrogen Sulfide	0-10 ppm	3 ppm	1 ppm	H2S
Nitric Oxide	0-50 ppm	25 ppm	15 ppm	NO
Nitrogen Dioxide	0-10 ppm	3 ppm	1 ppm	NO2
Ozone *	0-2 ppm	0.1 ppm	0.05 ppm	O3



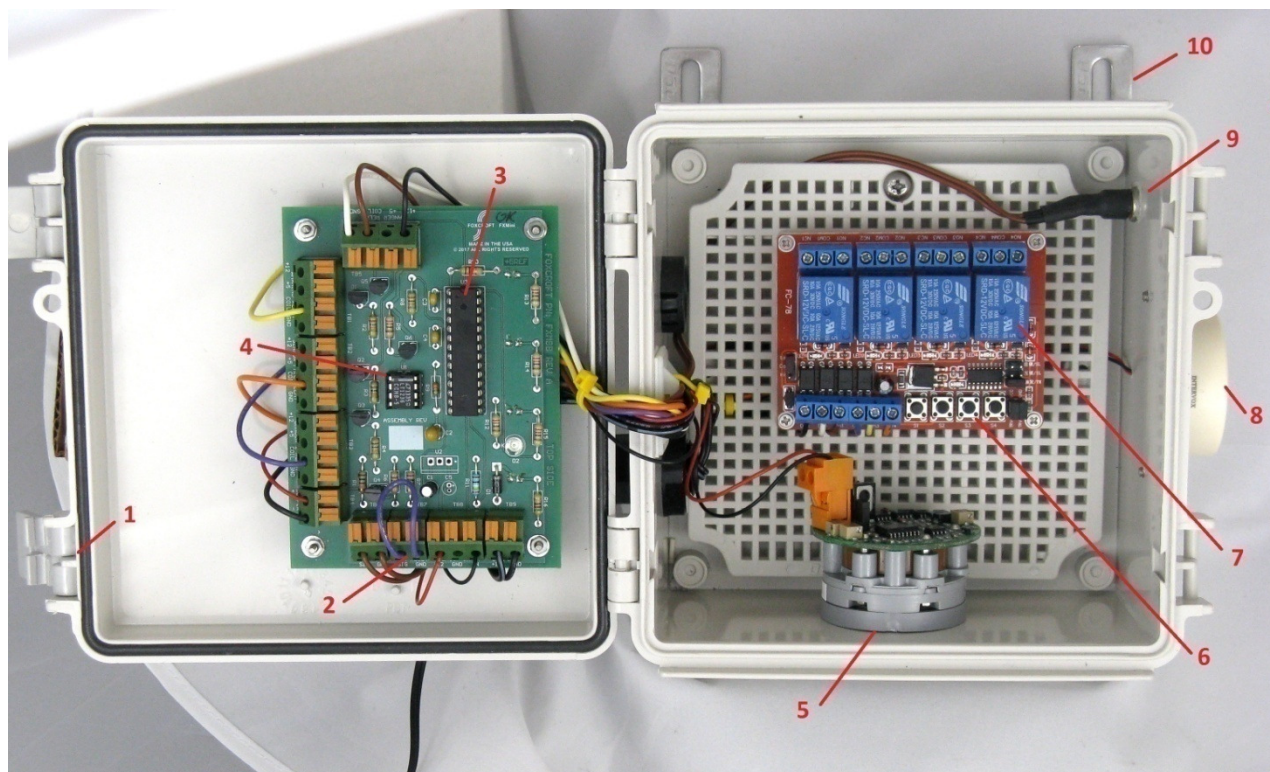
Non-standard gas ranges and alarm levels are available optionally.

*NH3, HCN and O3 Sensors / detectors operate on 24VDC power supply



FX-Mini Gas Detector

Quality Design and Construction



1. NEMA 4X plastic enclosure, lockable with gasket, plastic hinges and latches.
 2. Terminal for NC remote reset button.
 3. Field replaceable microprocessor on an American made circuit board.
 4. Precision voltage reference produces unwavering system voltage for accurate alarm trip points.
 5. Our rugged 3-electrode electrochemical gas sensor proven for over 20 years.
 6. Test buttons for each alarm relay.
 7. (4) 10A Form C relays, (2) Danger latching, (1) Warning, (1) Sensor Fail to actuate external light, horn, exhaust fan, telephone dialer or SCADA. Can be wired as NC or NO.
 8. 100 dB integral alarm buzzer.
 9. Dual function Silence & Reset NC pushbutton.
 10. Wall mount feet, stainless steel.
- Ample room for wiring.

Operate the detector using the included universal AC input 12V power adapter or by 12V battery in remote locations. Using a 50 amp hour rated battery the detector is expected to operate for 4-6 months on a single charge.