

# Gas Detection

## F12 Gas Transmitter

The F12 is a gas detection device designed specifically for toxic gases in hazardous areas that have Intrinsically Safe (IS) requirements. This device is also well suited for all general purpose applications where toxic gas measurement is required.

The sensors for this unit are easily exchanged and contain all calibration constants in sensor memory. The F12 gas transmitter also has an optional AC powered instrument with 3 alarm relays for external alarming.



### Features

- Intrinsically Safe Design
- Interchangeable Sensors
- Sensor Auto-Test
- Smart Sensor Modules to store calibration data
- Alarm & Relay Options
- LCD Graphic Display
- Output Simulation

Product ID: **F12**  
 Lead Time: **3 weeks**  
 Price: **\$1,295.00**

### Auto-Test Generator

Automatically checks operation of sensor daily

Item	Advantage to You	Price	*
Auto-Test Generator	Ensures the sensor is responding to the changes in ozone levels.	Online Pricing	Buy Online!

### 220V Power Option

220V/50Hz Power Option necessary for overseas use.

Item	Price	*
220V/50Hz Power Option	Online Pricing	Buy Online!

### Specifications

Range	0-2 ppm
Accuracy	+/- 10% of value
Resolution	0.01 ppm
Response time	10 seconds
Sensor Type	Electrochemical
Display	LCD
Alarm	Three relay options: SPST, 5 A @ 230 VAC resistive
Outputs	4 to 20mA, Relays.
Temperature range	-22 to 140F (-30 to +60 C)
Humidity range	0 - 95% (non-condensing)
Power requirements	12-30 VDC, 25 mA maximum in loop-powered mode
Weight	1 lb (.5 Kg)
Supporting documents	User manual and NIST Traceable Calibration Sheet included
Warranty	1 yr
Electronic	Repeatability: +/-1%
Electronic Linearity	+/-0.5%
Zero Drift	Less than 2% full scale per month, non-cumulative
Span Drift	Dependent on operating environment but generally less than 3% per month

Serial Interface  
 4-wire Sensor Power

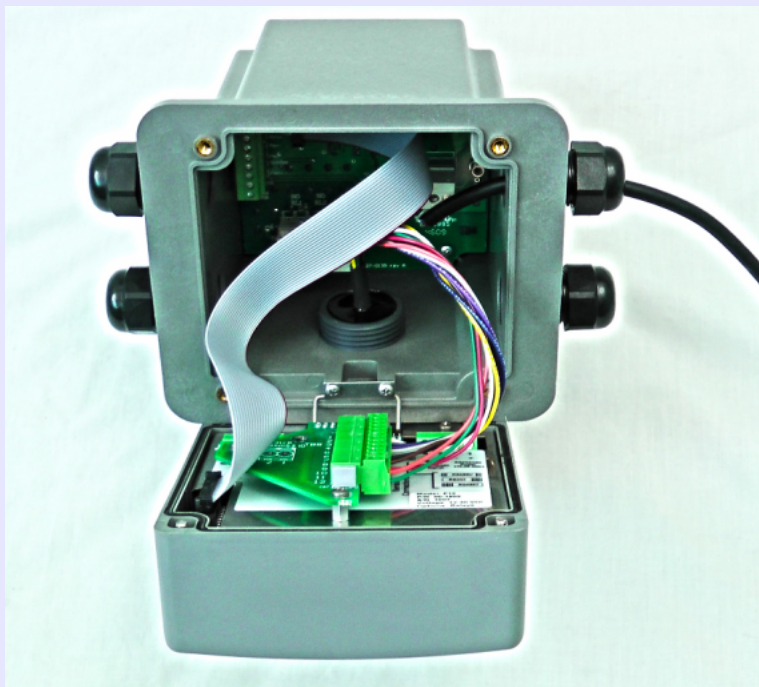
12-30 VDC, 200 mA maximum in 3-wire mode  
 150 of 230 VAC, 50/60 Hz  
 250 mA max. in 3-wire mode  
 250 mA max. in 3-wire mode  
 Programmable relay options: normally energized or normally de-energized

## Top view of F12



The F12 Gas Transmitter can be mounted against a wall or control box. Brackets for mounting are included with the F12. Cord grips as shows are included with the F12 for simple wiring.

## Inside of F12



The front fact of the F12 is easily removable and hinged for convenience. Wire terminals are located inside the F12.

## F-12 Video

To see how the F-12 works watch this short video!

## Bottom view of F12



The ozone sensor cell is installed in the bottom of the F12. This will prevent water, dust and other contaminates from easily building up on the sensor.

The F12 Gas Transmitter can be mounted against a wall or control box. Brackets for mounting are included with the F12. Cord grips as shows are included with the F12 for simple wiring.

## F12 with auto-test generator



This is the F12 with the optional auto-test generator. The Auto-test generator is an option for the F12. This generator will turn ON every 24 hours and check the response of the ozone sensor.