

# EC 30 Series

## Fixed Transmitter



## EC 30 Fixed Transmitter

- For oxygen and a wide selection of toxic sensors
- AutoCal<sup>®</sup> automatic calibration
- Linear 4 to 20 mA output signal
- 24 VDC
- Alarm relays standard in EC 36 (low, high and fault)

**GfG Instrumentation**

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# EC 30

The **EC 30** is an advanced transmitter for the detection of toxic gases and oxygen levels. This smart area monitor has an aluminum explosion proof housing with a stainless steel sensor cover that makes the **EC 30** series suitable for the harshest environments.

## Simple and effective

Once you power up the units, they will accurately display values on the large LCD and transmit a linear 4-20 mA signal to a GfG controller. Autocal® automatic calibration and maintenance is done effortlessly through push buttons or via a digital remote control connection. Smart sensors allow the user to easily change ranges or gas types in the field without a need for additional programming. The EC 36 is equipped with onboard relays for two alarm points and one sensor fault for local contact connection and activation of external devices like alarms, fans, auto dialers, etc.



## Specifications

### Ranges & Resolution for Select Sensors

Ammonia (NH <sub>3</sub> )	0 - 100	ppm	1	ppm
(-4°F to 104°F)	0 - 200	ppm	1	ppm
	0 - 500	ppm	5	ppm
Ammonia (NH <sub>3</sub> )	0 - 100	ppm	2	ppm
(-40°F to 60°F)	0 - 200	ppm	2	ppm
Carbon monoxide (CO)	0 - 500	ppm	1	ppm
	0 - 2000	ppm	1	ppm
Chlorine (Cl <sub>2</sub> )	0 - 50	ppm	0.1	ppm
Chlorine dioxide (ClO <sub>2</sub> )	0 - 1.00	ppm	0.01	ppm
Ethylene oxide (C <sub>2</sub> H <sub>4</sub> O)	0 - 20.0	ppm	0.1	ppm
Hydrogen chloride (HCl)	0 - 30.0	ppm	0.5	ppm
Hydrogen cyanide (HCN)	0 - 200.0	ppm	0.5	ppm
Hydrogen sulfide (H <sub>2</sub> S)	0 - 200	ppm	1	ppm
Nitrogen oxide (NO)	0 - 300.0	ppm	0.5	ppm
Nitrogen dioxide (NO <sub>2</sub> )	0 - 50.0	ppm	0.1	ppm
Oxygen (O <sub>2</sub> )	0 - 25.0	% vol.	0.1	% vol
Ozone (O <sub>3</sub> )	0 - 1.00	ppm	0.01	ppm
Sulfur dioxide (SO <sub>2</sub> )	0 - 50.0	ppm	0.1	ppm

### Other Specifications

Dimensions:	4.5x4.9x3.7 in (115x125x95 mm)
Weight:	3.5 lb (1588 g)
Power supply:	24 VDC / 200 mA
Output signal:	Linear 4-20 mA, max load 300Ω
Signal connection:	3 shielded wire x 18 AWG < 1,000 ft
	Up to 100 ft remote interface
Relays:	2 alarm point, 1 fault - voltage free
	Voltage: 250 VAC 50/60 Hz or 250 VDC maximum
	Current: 4 a AC/DC maximum
Temperature range:	-5 to +113°F (-15 to +45°C)
	(LCD will not operate below freezing)
Humidity range:	15 to 96% r.h. (non-condensing)
Pressure Range:	920 to 1,080 hPa
Display:	4 digit LCD (EC 36 backlit)
	Power, alarm and fault LEDs (EC 36)
Detection method:	Diffusion
Housing:	Aluminum explosion proof

### Housing Approvals

Class 1, Groups B, C, D  
UL  
FM  
EEX d IIC  
Type 4X (IP 64)

### Electro-magnetic Compatibility (EMC)

According to EN 61000-6-3 resp. EN 61000-6-4 and EN 50270 Type 1 and Type 2

### Optional Accessories

Calibration gas, kits and regulators  
Remote calibration display

### Warranty

Three years on instrument and electronics. Two years on O<sub>2</sub>, CO and H<sub>2</sub>S. One year on all other sensors.

Refer to GfG complete warranty for details

Specifications subject to change without notification

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Rev. 6 (03/21/16)