

# EC 30 AutoCal<sup>®</sup> Series

## Full-Featured Smart Transmitter



- Robust industrial design
- Fully-automatic one button calibration adjustment
- Digital display / control connection
- Explosion proof housing

# Remote Transmitters for Oxygen and Toxic Gases

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 any GfG controller. AutoCal® automatic calibration and maintenance is done effortlessly through push buttons or via a remote digital control connection. Smart sensors allow the user to easily change ranges or gas types in the field without the need for additional programming. The EC 36 is equipped with onboard

relays for two alarm points and one sensor fault for local connection and activation or deactivation of external devices like alarms, fans, auto dialers, etc.

## Digital display / control connection

The digital connection allows display of readings, non-intrusive maintenance, and AutoCal® calibration activation to be done locally or from a distance.



# Technical Data

## EC 30 remote transmitters

### Gases and ranges\*

Ammonia (NH <sub>3</sub> )	0 to 200 ppm 0 to 1,000 ppm
Carbon monoxide (CO)	0 to 500 ppm 0 to 2,000 ppm
Chlorine (Cl <sub>2</sub> )	0 to 50 ppm 0 to 250 ppm
Chlorine Dioxide (ClO <sub>2</sub> )	0 to 1.0 ppm
Hydrogen (H <sub>2</sub> )	0 to 2,000 ppm 0 to 4% volume
Hydrogen Chloride (HCL)	0 to 200 ppm
Hydrogen Cyanide (HCN)	0 to 200 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	0 to 200 ppm 0 to 1,000 ppm
Nitrogen Dioxide (NO <sub>2</sub> )	0 to 50 ppm 0 to 200 ppm
Oxygen (O <sub>2</sub> )	0 to 25% volume
Sulfur Dioxide (SO <sub>2</sub> )	0 to 50 ppm 0 to 500 ppm

\*Additional gasses and ranges available please contact GfG Instrumentation

### Detection principle

Electrochemical

### Detection method

Diffusion

### Response time

T90 <5 sec. (depending on gas)

### Expected sensor life

2 years (depending on gas)

### Display

4 digit LCD (EC 36 backlit)  
Power, alarm, and fault LED's (EC 36)

### Weight

3.5 pounds (1587 g)

### Dimensions

4.5x4.9x3.7 inches (115x125x95 mm) WxHxD

### Power supply

24 V DC / 200 mA

### Output signal

Linear 4 to 20 mA

### Signal connection

3 shielded wire x 18 AWG <1000 ft.  
Up to 100 ft. remote interface

### Relays (EC 36)

2 alarm points, 1 fault – voltage free  
Voltage: 250 V AC 50/60 Hz or 250 V DC  
maximum  
Current: 4 A AC/DC maximum

### Temperature range

+5 to +115 °F (-15 to +46 °C)

### Humidity range

15 to 96% rh

### Pressure range

920 to 1,080 hPa

### Housing

Aluminum explosion proof stainless steel sensor housing

### Housing approvals

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

### Available models

EC 35 - LCD  
EC 36 - Backlit LCD, relays, and LED's

### Options

Remote display / control

Specifications subject to change without notification

Distributed by:



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