

EC 30 AutoCal[®] Series

Full-featured Smart Transmitter



- Robust industrial design
- Fully-automatic one button calibration adjustment

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 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 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

Ammonia (NH₃)
Carbon monoxide (CO)
Chlorine (Cl₂)
Chlorine Dioxide (ClO₂)
Hydrogen (H₂)
Hydrogen Chloride (HCL)
Hydrogen Cyanide (HCN)
Hydrogen Sulfide (H₂S)
Nitrogen Dioxide (NO₂)
Oxygen (O₂)
Sulfur Dioxide (SO₂)

Detection ranges*

Cl ₂	0-50 or 250 ppm
ClO ₂	0-1.0 ppm
CO	0-500 or 2,000 ppm
H ₂	0-2,000 ppm or 0-4% volume
H ₂ S	0-200 or 1,000 ppm
HCL	0-200 ppm
HCN	0-200 ppm
NH ₃	0-200 or 1,000 ppm
NO ₂	0-50 or 200 ppm
O ₂	0-25% volume
SO ₂	0-50 or 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 LEDs (EC 36)

Power supply

24 VDC / 200 mA

Output signal

Linear 4-20 mA

Signal connection

3 shielded wire x 18 AWG <1,000 ft.
Up to 100 ft. remote interface

Relays (EC 36)

2 alarm points, 1 fault – voltage free
Voltage: 250 VAC 50/60 Hz or 250 VDC 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

Weight

3.5 pounds (1587 g)

Dimensions

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

Accessories

Remote display / control

Specifications subject to change without notification

Distributed by:



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