

# EC 28

## For Toxic Gases, Oxygen and Hydrogen



## EC 28 Fixed Transmitter

- Reading of gas concentration at transmitter display
- Ex-proof visual and audible alarms
- ATEX certificate II 1G EEx ia IIC T4 / II 2 G EEx em [ib] IIC T4
- One-person calibration at transmitter using touch keys or remote control
- Plug-in smart sensor - sensor replacement without opening the casing

**GfG Instrumentation**

1194 Oak Valley Dr, Ste 20, Ann Arbor MI 48108 USA  
(800) 959-0329 • (734) 769-0573 • [www.goodforgas.com](http://www.goodforgas.com)

# EC 28 - The Smart Transmitter

## Advanced Technology

Wherever hazards are expected, the EC 28 transmitter and GfG's proven monitoring systems are the right choice for reliable surveillance. The ATEX-certified design, an integrated, Ex-proof buzzer, and bright alarm LEDs provide the highest safety in hazardous areas by including visual and audible alarms. The gas alarm not only alerts the person in the control room of hazards, but also the person on-site.

## Easy Handling

Smart sensor technology allows a user to install the transmitter or to replace a sensor within a few seconds – just plug the sensor into the transmitter. Adjustments are done directly at the transmitter using touch keys or with the remote control (one-person calibration).

## RC2 Remote Control

Ammonia and hydrogen are lighter than air. With the transmitter installed close to the ceiling, GfG can provide permanently connected cables with plugs for the remote control, which allow the user to do all adjustments without having to climb a ladder. In addition, one remote control can be used for several transmitters, which helps cut costs and increase efficiency.

The remote control display is always identical to that of the transmitter, making inspection, service, and calibration considerably simple.

The remote control reads the current gas concentration and can be used as an external display.



## Integrated Alarm – Saves Money on Ex-proof Alarm and Wiring!

The EC 28 D model shows the current gas concentration on-site at the display of the transmitter and also at GfG's GMA controller.

The EC 28 DA provides additional bright alarm LEDs and a buzzer – avoiding costs for a separate Ex-proof horn and an Ex-proof light. You also save money on wiring to connect the controller and alarm devices.

In combination with GfG's flexible control units, the EC 28 provides various possibilities for reliable and cost-effective gas monitoring.

## Advantages at a Glance

- Concentration display at transmitter or at remote control
- ATEX II 1 G EEx ia IIC T4 / II 2 G EEx dem [ib] IIC T4
- Ex-proof visual and audible alarms
- No need for expensive Ex-proof buzzer or wiring
- Easy sensor replacement by means of plug-in smart sensors
- Long sensor life
- Low service requirement
- Permanent status and function display at transmitter
- Adjustments without opening the casing using touch keys or remote control; easy handling even for hard-to-reach transmitters positions (e.g. at the ceiling)

## Reliable Measurement, Increased Safety, Minimized Cost of Operation

Accurate sensors and integrated temperature compensation provide the highest measurement accuracy. Low maintenance requirements and the long sensor life reduce your cost of ownership.

## Specifications

### Gases and Ranges

Ammonia (NH <sub>3</sub> )	0-200, 0-500, 0-1,000
Carbon monoxide (CO)	0-500, 0-2,000
Chlorine (Cl <sub>2</sub> )	0-50, 0-250
Chlorine dioxide (ClO <sub>2</sub> )	0-2
Hydrogen (H <sub>2</sub> )	0-2,000, 0-1% volume, 0-4% volume
Hydrogen chloride (HCl)	0-30, 0-200
Hydrogen cyanide (HCN)	0-50, 0-200
Ethylene oxide (C <sub>2</sub> H <sub>4</sub> O)	0-100
Hydrogen fluoride (HF)	0-10
Hydrogen sulfide (H <sub>2</sub> S)	0-200, 0-1,000
Nitrogen dioxide (NO <sub>2</sub> )	0-50, 0-200
Nitrogen monoxide (NO)	0-300, 0-1,500
Oxygen (O <sub>2</sub> )	0-25% volume
Ozone (O <sub>3</sub> )	0-1, 0-5
Phosgene (COCl <sub>2</sub> )	0-2
Sulfur dioxide (SO <sub>2</sub> )	0-50, 0-500
Silan (SiH <sub>4</sub> )	0-50

### Detection Principle

Electrochemical

### Ambient Temperature

-4 to +122°F / -20 to +50°C

### Output Signal

4–20 mA

### Supply Voltage

15 - 30 VDC

### Weight

28.22 ounces (800 grams) with display

### Dimensions

7.63x3.94x2.17 inches (193x100x55 mm) (HxWxD)

### Casing Protection

IP 64

### Transmitter Cable

Shielded cable  
2/3/6 x 0.75mm<sup>2</sup>  
M 16 x 1.5

### Options

Intrinsically safe (EC 28 I, EC 28 DI) 1 relay (EC 28 DAR)

### Display

4-digit LCD for linearized measurement values and messages, service, LEDs for operation / fault

### Touch Keys

3 keys for all adjustments / calibration, function test

### ATEX Labelling

II 1 G EEx ia IIC T4 and  
II 2 G EEx em [ib] IIC T4  
0158

Specifications subject to change without notification

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**GfG Instrumentation**

Tel: (800) 959-0329 or (734) 769-0573  
Fax: (734) 769-1888  
E-mail: info@gfg-inc.com  
Website: www.goodforgas.com

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