

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 Ex ia IIC T4 Ga / II 2 G Ex emb [ib] IIC T4 Gb
- One-person calibration at transmitter using touch keys or remote control
- Plug-in smart sensor - sensor replacement without opening the casing

GfG Instrumentation

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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 1G Ex ia IIC T4 Ga / II 2G Ex emb [ib] IIC T4 Gb
- 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 ₃)	0-100, 0-200, 0-500,
Carbon monoxide (CO)	0-500, 0-2,000
Chlorine (Cl ₂)	0-50
Chlorine dioxide (ClO ₂)	0-1.0
Hydrogen (H ₂)	0-2,000, 0-1% volume, 0-4% volume
Hydrogen chloride (HCl)	0-30
Hydrogen cyanide (HCN)	0-200
Ethylene oxide (C ₂ H ₄ O)	0-20.0
Hydrogen fluoride (HF)	0-10
Hydrogen sulfide (H ₂ S)	0-200
Nitrogen dioxide (NO ₂)	0-50
Nitrogen monoxide (NO)	0-300
Oxygen (O ₂)	0-25% volume
Ozone (O ₃)	0-1
Phosgene (COCl ₂)	0-2
Sulfur dioxide (SO ₂)	0-50
Silane (SiH ₄)	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 0.75mm²
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 1G Ex ia IIC T4 Ga and
II 2G Ex emb [ib] IIC T4 Gb

Specifications subject to change without notification

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