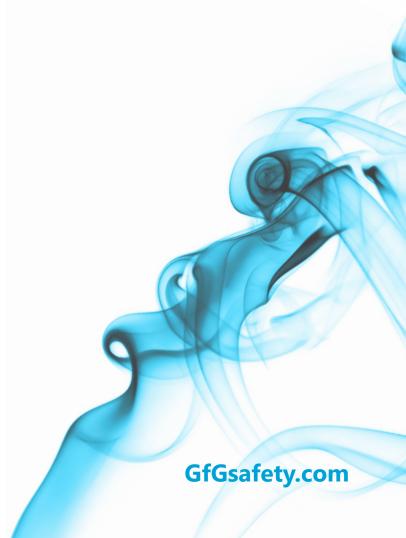


EC28 i Transmitter

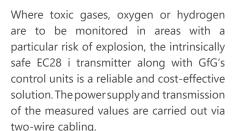
Intrinsically Safe for Toxic Gases, O₂ and H₂





EC28 i Transmitter

Intrinsically Safe for Toxic Gases, O₂ and H₃



Intrinsically safe operation

Due to its intrinsically safe build, the EC28 i can be used even in areas with a particularly high risk of explosion. A safety barrier (SB1 or Zener barrier; optionally available) has to be connected between the transmitter and the programmable logic controller (PLC) to convert the supply voltage to 24 V DC. This prevents the power lines from igniting within the Ex zone. The intrinsic safety of the EC28 i is ATEX-certified and makes it suitable for applications up to Ex zone 0.

Communication and Service

Communication is carried out via a 4 to 20 mA signal. The Smart Sensor technology enables quick and easy replacement of the sensor. Adjustments can be made using the RC2 remote control (one-man calibration).

Remote Control RC2 (optional)

Gases like ammonia and hydrogen are lighter than air. Transmitters with these



sensors are therefore installed near the simplify servicing, these ceiling. To transmitters can be equipped with a permanently installed cable meaning that the RC2 remote control can be connected for maintenance work and settings can be made from ground level. The display of the RC2 remote control shows the same information as would be shown by the EC28 versions with a display. This makes inspection, maintenance and calibration much easier.

Reliable Measurement & Minimal Operating Costs

The sensor and built-in temperature compensation ensure the highest measuring accuracy. The long sensor service life and low maintenance requirements ensure minimal operating costs.

Variants for Every Application

EC28 D

The basic version of the EC28 is sufficient for many applications. For specific requirements, the EC28 is also available in a wide variety of versions:

EC28 basic version for a wide range

of electrochemical sensors

with display for showing the current measured values

EC28 DA with display, bright LED

warning lights and integrated alarm horn

EC28 DAR with display, alarm horn and

relay for additional external alarm devices

with Modbus interface **EC28 B** EC28 DB with Modbus interface

and display

EC28 DAB with Modbus interface,

display, bright LED lights and

integrated alarm horn

EC28 i intrinsically safe EC28 Di intrinsically safe and

with display

Together with GfG's sophisticated controllers, all versions of the EC28 are the perfect choice for detecting a wide range of gases.

Overview of Gases:

- (NH₂) » Ammonia » Arsine (AsH₃) » Bromine gas (Br_2) » Chlorine (Cl₂) » Chlorine dioxide (CIO₂) » Hydrogen chloride (HCl)
- » Hydrogen cyanide (HCN) » Diborane $(B_{2}H_{6})$ » Ethylene oxide (C_2H_4O) » Hydrogen fluoride (HF) » Carbon monoxide (CO)
- » Ozone (O₂) » Phosgene » Phosphine » Oxygen
- (COCI₂) (PH_3) (O₂) » Sulphur dioxide (SO₂)
- » Hydrogen sulfide (H_sS) » Silane (SiH₄) » Nitrogen dioxide
- (NO_2) » Nitrogen monoxide (NO) » Hydrogen (H₂)

Technical Data EC28 i:

Measuring principle: Electrochemical (EC) Measuring range: Sensor dependent Gas supply: Diffusion or gassing per calibration adapter

Lifetime of

¹ Sensor dependent

Sensor dependent the sensor: Sensor dependent **Response time:** -20 to +50 °C1 **Temperature:**

Humidity: 5 to 90 % r. h.1 Air pressure: 80 to 120 kPa¹ **Output signal:** 4-20 mA 15 to 30 V DC **Power supply:**

> 21 V to 27 V DC (via Zener barrier)

Plastic **Housing: Protection class: IP64**

115 x 203 x 55 mm **Dimensions:**

 $(W \times H \times D)$

Weight: 650 a Approvals / **Certifications:**

Markings & Type

of Protection: (a) II 1G Ex ia IIC T4 Ga

-20 °C ≤ Ta ≤ +50 °C

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