



GfGsafety.com

EC28 Transmitter

For Toxic Gases, O₂ and H₂ in Ex Zones



MADE IN GERMANY

EC28 Transmitter

For Toxic Gases, O₂ and H₂ in Ex Zones

Whenever toxic gases, oxygen or hydrogen

are to be monitored, the EC28 transmitter

combined with GfG's proven control units

is a reliable and cost-effective solution.

This ATEX-certified transmitter allows for

safe use, even in potentially explosive

The hardware of the EC28 complies with

the European Functional Safety Standard

DIN EN 61508-2: 2011 for many gases.

The SI levels (up to SIL3) in single-channel

(1001) or redundant (1002) use are listed in

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

atmospheres.

the overview of gases.

Communication and Service



Reliable Measurement &

Minimal Operating Costs

minimal operating costs.

a wide variety of versions:

EC28

EC28 D

EC28 DA

Variants for Every Application

The sensor and built-in temperature

compensation ensure the highest measuring

accuracy. The long sensor service life and

low maintenance requirements ensure

The basic version of the EC28 is sufficient

for many applications. For specific

requirements, the EC28 is also available in

basic version for a wide range

of electrochemical sensors

current measured values

with display, bright LED

alarm horn

alarm devices

and display

with display for showing the

warning lights and integrated

relay for additional external

display, bright LED lights and

with Modbus interface

with Modbus interface

integrated alarm horn

intrinsically safe and

all versions of the EC28 are the perfect

choice for detecting a wide range of gases.

intrinsically safe

with display

Technical Data EC28:

Measuring principle:

Electrochemical (EC) **Measuring ranges:** Depending on gas type and sensor

Gas supply: Diffusion or gassing per calibration adapter

Expected service life of the measuring cell:

Depending on sensor **Response Time:**

Depending on gas type and sensor

Temperature:

in Ex zones outside Ex zones

-20 to +50 °C -25 to +50 °C

Humidity:

5 to 90 % r. h. Air pressure: 80 to 120 kPa **Output signal:**

RS-485

Power supply: 18 to 30 V DC

Housing:

Plastic, antistatic

Protection class:

IP64 Weight:

650 g

Dimensions: 100 x 203 x 55 mm (W x H x D)

Approvals / Certifications:

Markings & Type of Protection: ⓑ II 2G Ex eb mb [ib] IIC T4 Gb €€0158 -20 °C ≤ Ta ≤ +50 °C

EU type examination certificate: BVS 04 ATEX E 132 X

Functional Safety (SIL): DIN EN 61508-2: 2011*

EMC Testing:

DIN EN 50270: 2015 Interference emission: Type class I Interference immunity: Type class II

* sensor dependant

Overview of gases:

» Arsine	(AsH₃)
» Bromin gas	(Br ₂)
» Chlorine dioxide	(ClO ₂)
» Hydrogen cyanide	(HCN)
» Diborane	(B_2H_6)

» Ethvlene oxide » Carbon monoxide » Ozone » Phosgene » Phosphine

 (C_2H_4O) (CO) (O_3) $(COCI_2)$ (PH_2)

» Sulphur dioxide (SO_2) » Hydrogen sulphide » Nitrogen dioxide » Nitrogen monoxide » Hydrogen (H_2)

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Other gases on request

 (H_2S) (NO₂) (NO)

smart GasDetection Technologies



Remote Control RC2 (optional)

Gases like ammonia and hydrogen are lighter than air. Transmitters with these sensors are therefore installed near the ceiling. To simplify servicing, these 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 display. This makes inspection, maintenance and calibration much easier.