

# Transmitter EC28 D

for toxic gases, oxygen and hydrogen



- Gas concentration reading at transmitter display
- ATEX certified  $\text{Ex}$  II 2 G EEx em [ib] IIC T4
- One-man calibration at transmitter via touch keys or remote control
- Plug-in Smart Sensor
- Sensor replacement without opening housing

Worldwide Supplier Of Gas Detection Solutions



# Transmitter EC28 D

## Superior technology

Wherever gas hazards are to be expected, the transmitter EC28 D and GfG's proven control systems are the right choice for reliable surveillance. The ATEX-certified design provides the highest safety even in hazardous areas. LED indicate operation (green) or fault (red).

The transmitter EC28 D reads the current gas concentration at site on the display with a four-digit LCD for measurement values, messages and service. Adjustments and function tests are done directly with three touch keys under the transmitter display.

## Smart sensors

Smart Sensor technology allows the 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 via touch keys or with the remote control (one man calibration).

## Remote Control RC2

Ammonia and hydrogen are lighter than air. With the transmitter installed close to the ceiling you can provide permanently connected cable with plugs for the remote control, which allows the user to do all adjustments without having

to climb a ladder. One remote control can be used for several transmitters. The remote control always shows the same reading as the transmitter. The remote control simplifies inspection, service and calibration considerably. In addition to this, the remote control reads the current gas concentration and can be used as an external display.

## Reliable detection and minimized cost of ownership

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



RC2 with EC28 DA

## Versions

**EC28** basic unit without display.

**EC28 DA** with display, bright alarm LED and integrated buzzer. No need for an expensive Ex-proof buzzer means less wiring costs.

**EC28 DAR** includes a relay for additional external alarm devices.

**EC28 B** with BUS-interface.

**EC28 DB** with BUS-interface and with display of actual gas concentration.

**EC28 DAB** with BUS-interface, with display of actual gas concentration and with bright alarm LED and integrated buzzer. No need for an expensive Ex-proof buzzer means less wiring costs.

**EC28 i** intrinsically safe model.

**EC28 Di** intrinsically safe and with display of actual gas concentration.

## Advantages at a glance

- Display of gas concentration at transmitter
- ATEX-approval
- Plug-in smart sensor for easy sensor replacement
- Long sensor life
- Low service requirement
- Permanent function display
- Calibration without opening housing via touch keys

# Technical Data

## Detection principle:

Electrochemical sensor

## Ambient temperature:

-20°C .. +50°C

## Output signal:

4 – 20 mA

## Supply voltage:

15 – 30 V DC

## Weight:

800 g with display

## Dimensions:

100x193x55 mm (WxHxD)

## Casing protection:

IP64

## ATEX labelling:

Ⓔ II 2G EEx em [ib] IIC T4

CE0158

## Touch keys:

3 keys for all adjustments / calibration, function test

## Display:

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

## Transmitter cable:

Shielded cable

2/3/6 x 0.75mm<sup>2</sup>

M 16 x 1,5

## Gases and Detection Ranges (ppm)

All detection ranges are scalable - except HF and O<sub>3</sub> (0 - 1 ppm)



Ammonia NH <sub>3</sub>	Chlorine Cl <sub>2</sub>	Chlorine dioxide ClO <sub>2</sub>	Hydrogen chloride HCl	Hydro cyanide HCN	Ethylene oxide C <sub>2</sub> H <sub>4</sub> O	Hydrogen fluoride HF	Carbon monoxide CO
0 - 200 0 - 500 0 - 1000	0 - 50 0 - 250	0 - 2	0 - 30 0 - 200	0 - 50 0 - 200	0 - 100	0 - 10	0 - 500 0 - 2000

  

Ozone O <sub>3</sub>	Phosgene COCl <sub>2</sub>	Oxygen O <sub>2</sub>	Sulphur dioxide SO <sub>2</sub>	Hydrogen sulphide H <sub>2</sub> S	Silane SiH <sub>4</sub>	Nitrogen dioxide NO <sub>2</sub>	Nitrogen monoxide NO	Hydrogen H <sub>2</sub>
0 - 1 0 - 5	0 - 2	0 - 30 Vol.-%	0 - 50 0 - 500	0 - 200 0 - 1000	0 - 50	0 - 50 0 - 200	0 - 300 0 - 1500	0 - 2000 0 - 1 Vol.-% 0 - 4 Vol.-%



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