

# Transmitter EC28 B

for toxic gases, oxygen and hydrogen



- ATEX certified  $\text{Ex}$  II 2 G Ex emb [ib] IIC T4
- One-man calibration at transmitter via remote control
- Plug-in Smart Sensor
- Sensor replacement without opening housing
- Modbus-interface

Worldwide Supplier Of Gas Detection Solutions



# Transmitter EC28 B

## Superior technology

Wherever gas hazards are to be expected, the transmitter EC28 B 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. LEDs indicate operation (green) or fault (red).

The transmitter EC28B provides a modbus-interface for communication of several transmitters in a loop.

## 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 D** with 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 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 remote control
- ATEX-approval
- Plug-in smart sensor for easy sensor replacement
- Long sensor life
- Low service requirement
- Permanent function display
- Calibration without opening housing
- Modbus-interface for data communication

# Transmitter EC28 B Technical Data

## Detection principle:

Electrochemical sensor

## Ambient temperature:

-20°C .. +50°C

## Output signal:

2-wire modbus

## Supply voltage:

15 – 30 V DC

## Dimensions and weight:

100x193x55 mm (WxHxD)  
800 g

## Casing protection:

IP64

## ATEX labelling:

ⒺII 2G Ex emb [ib] IIC T4  
CE0158

## Display:

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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