

# Transmitter CC28

State-of-the-art monitoring of combustible gases

Edition 1  
2004



Display of gas concentration at transmitter

Ex-proof visual and audible alarm

ATEX approval  $\text{Ex}$  II 2 G EEx dem [ib] IIC T4

One-man calibration at transmitter  
by means of touch keys or remote control

Plug-in Smart Sensor – Sensor replacement without  
opening of casing

Shortest response time worldwide

**Worldwide Supplier of Gas Detection Solutions**



# CC28

## – the smart transmitter for combustible gases

### Superior technology

Wherever hazards by combustible gases or vapours are to be expected, the transmitter CC28 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 highest safety including visual and audible alarm even in hazardous areas. Thus the gas alarm does not only alert the man in the control room but also the person at site.

### Smart sensors

The Smart Sensor technology allows to install the transmitter or to replace a sensor within a few seconds – just plug the sensor in the transmitter. Adjustments are done directly at the transmitter by means of touch keys or with the remote control (one man calibration).

### Remote Control RC2

Several flammable gases 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 to do all adjustments without having to climb up a ladder. One remote control can be used for several transmitters. The display of the remote control always shows the same reading as the transmitter. The remote control facilities 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, minimized cost of ownership, increased safety

The sensor and the integrated temperature compensation provide highest measurement accuracy. Low maintenance requirements and long sensor life reduce your cost of ownership. The improved sensor technology and a special „chimney effect“ make the CC28 the




transmitter for combustible gases with the **shortest response time worldwide**. This gives the user additional seconds to take counter measures or to get to safety.



### Integrated alarm – saves money for Ex-buzzer, Ex-lamp and wiring!

The model CC28 D reads the current gas concentration at site on the display of the transmitter – and additionally at GfG's CMA controller. The CC28 DA provides additional warning by means of bright alarm LEDs and a buzzer – thus avoiding cost for a separate Ex-proof horn and an Ex-proof light; you save the money for the wiring between controller and alarm devices.

## Advantages at a glance

- Display of gas concentration at transmitter or at remote control
- The world's fastest transmitter for combustible gases
- ATEX  II 2 G EEx dem lib I IIC T4
- Ex-proof visual and audible alarm
- No need of expensive Ex-proof buzzer, less wiring
- Plug-in smart sensor for easy sensor replacement
- Long sensor life
- Low service requirement
- Permanent status and function display (operation/fault/service) at transmitter
- Adjustments without opening of casing by means of touch keys or remote control, easy handling even at hardly accessible transmitter positions (e.g. at the ceiling)

## CC28 – Technical Data

### Gases

Combustible gases and vapours

### Detection range

0 .. 100 % LEL, 0 .. 50 % LEL

### Detection principle

Catalytic combustion

### Ambient temperature

-20 .. + 50° C

### Output signal

4 – 20 mA

### Supply voltage

15 - 30 V DC

### Response time

$t_{90}$  = 12 seconds

### Casing protection

IP64

### Display

4-digit LED for linearized detection values and messages, service, LEDs for operation / fault

### Function keys

3 touch keys for all settings / calibration, function test

### Wiring

Shielded cable  
3 x 0.75mm<sup>2</sup> for up to 200 m,  
3 x 1.5 mm<sup>2</sup> for up to 1000 m,  
M 16 x 1.5

### Dimensions

100 x 193 x 55 mm (W x H x D)



### Weight

800 g with display

### Expected sensor life

3 - 5 years

### ATEX labelling

 II 2 G EEx dem lib I IIC T4  0158

### EC-Type Examination Certificate

BVS 04 ATEX E 132 X

### EMC

EN 50270 : 1999

Radioshielding:

Interference resistance:

Type class I

Type class II



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QM system certified as per  
DIN EN ISO 9001:2000

We reserve the right of modification