



CC28 Transmitter

For combustible gases and vapors in Ex zones



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For monitoring combustible gases and vapors in hazardous areas, the CC28 transmitter in combination with GfG's proven controllers is a reliable and economical solution. Short response times ($t_{90} \leq 9$ s; depending on gas type and sensor) allow fast warning of gases such as methane or propane.

The design is ATEX certified. With ignition protection types „d“ (flameproof enclosure) and „e“ (increased safety), safe use in Ex zone 1 is possible. In addition, the CC28 hardware complies with the European Functional Safety Standard DIN EN 61508-2:2011.



CC28 with RC2 remote control

Communication and service

Signal transmission is based on the 4–20 mA industry standard. Smart Sensor technology enables fast and uncomplicated sensor replacement. Test gas can be added via calibration adapter.

RC2 remote control (optional)

Some combustible gases such as methane, hydrogen and ammonia are lighter than air. Transmitters with such sensors are therefore installed near the ceiling. To simplify servicing, these transmitters can be equipped with a permanently installed cable. This allows the RC2 remote control with display to be connected for maintenance work. Inspection, maintenance and adjustment are thus greatly simplified. Service can be performed by a single technician.

Reliable measurement and minimal operating costs

The stack effect provides rapid detection of combustible gases and vapors. This leaves crucial seconds to initiate countermeasures.

The built-in temperature compensation ensures highest measurement accuracy. The low maintenance requirements and long sensor service life keep operating costs to a minimum. Sensor wear is significantly reduced by the automatic shutdown (from 112 % LEL).

Variants for different applications

The basic variant of the CC28 is sufficient for many applications. For special requirements, the CC28 is also available in additional versions:

- | | |
|----------------|---|
| CC28 | basic version for a wide range of flammable gases |
| CC28 D | with display to indicate the current measured value |
| CC28 DA | with display, LED warning lights and alarm buzzer |

In combination with GfG's high-performance controllers, all versions of the CC28 are a good choice for a wide range of combustible gases to be monitored.

CC28 Technical Data:

Detection principle:

Catalytic combustion

Detection ranges:

0 to 100 % LEL

0 to 4 vol%¹

Gas supply:

Diffusion or gassing with flow adapter

Expected sensor life:

5 years²

Response time:

$t_{90} \leq 9$ s³

Temperature:

-20 to +50 °C (Ex zone)

-25 to +55 °C (not Ex zone)

Humidity:

5 to 90 % r. h.

Air pressure:

80 to 110 kPa (Ex zone)

80 to 120 kPa (not Ex zone)

Output signal:

4–20 mA

Power supply:

15 to 30 V DC

Housing:

Plastic, antistatic

Protection class:

IP64

Weight:

700 g

Dimensions with sensor:

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

Approvals / Certifications

ATEX labeling:

Ⓔ II 2G Ex db eb mb [ib] IIC T4 Gb CⒺ0158

-20 °C ≤ Ta ≤ +50 °C

EC Type Examination Certificate:

BVS 04 ATEX E 132 X

(electric explosion protection)

BVS 05 ATEX G 001 X

(measuring function⁴)

Functional Safety (SIL):

DIN EN 61508-2: 2011

EMC:

DIN EN 50270: 2015

Radio shielding: Type class I

Interference resistance: Type class II

Overview of gases:

» Acetone (C₃H₆O)
» Acetylene (C₂H₂)
» Ammonia* (NH₃)
» Carbon monoxid (CO)
» Diethyl ether (C₄H₁₀O)
» Ethane (C₂H₆)
» Ethanol (C₂H₆O)

» Ethyl acetate (C₄H₈O₂)
» Ethylene (C₂H₄)
» Hexane (C₆H₁₄)
» Hydrogen* (H₂)
» Isopropanol* (C₃H₈O)
» Methane* (CH₄)
» Methanol (CH₄O)

(C₄H₈O₂)
(C₂H₄)
(C₆H₁₄)
(H₂)
(C₃H₈O)
(CH₄)
(CH₄O)

» n-Nonane* (C₉H₂₀)
» n-Butane / Isobutane (C₄H₁₀)
» Natural gas (HC mixture)
» Propane* (C₃H₈)
» Propyne (C₃H₄)
» Propylene (C₃H₆)
» Toluole (C₇H₈)

* with measuring function for explosion protection

Other gases on request

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