



Fixed gas detection systems

smart
GasDetection
Technologies



CC28 DA Transmitter

With display and alarm for flammable gases



 **MADE IN
GERMANY**

GfGsafety.com

CC28 DA Transmitter

With display and alarm for flammable gases



For monitoring combustible gases and vapors in hazardous areas, the CC28 DA transmitter with display, LED alarm lights and buzzer 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 DA hardware complies with the European Functional Safety Standard DIN EN 61508-2:2011.

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. If the CC28 DA has to be mounted in a difficult-to-access location, the optional RC2 remote control simplifies adjustment and service (one-man calibration).

Display, pushbuttons and alarm

The CC28 D transmitter has a 2.2 inch LC display and three pushbuttons. In normal operation, the display shows the measured value or information on faults or alarms. In addition, the operating parameters (sample gas, measuring range, limit values, etc.) can be called up via the pushbutton interface. The CC28 DA has highly visible, red LED alarm lights and an integrated, loud buzzer (90 dB). Costs for additional, Ex-protected alarm devices can thus be saved.



CC28 DA with display, alarm LEDs and buzzer

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 DA 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:

800 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 (C ₃ H ₆ O)	» Ethyl acetate (C ₄ H ₈ O ₂)	» n-Nonane* (C ₉ H ₂₀)
» Acetylene (C ₂ H ₂)	» Ethylene (C ₂ H ₄)	» n-Butane / Isobutane (C ₄ H ₁₀)
» Ammonia* (NH ₃)	» Hexane (C ₆ H ₁₄)	» Natural gas (HC mixture)
» Carbon monoxid (CO)	» Hydrogen* (H ₂)	» Propane* (C ₃ H ₈)
» Diethyl ether (C ₄ H ₁₀ O)	» Isopropanol* (C ₃ H ₈ O)	» Propyne (C ₃ H ₄)
» Ethane (C ₂ H ₆)	» Methane* (CH ₄)	» Propylene (C ₃ H ₆)
» Ethanol (C ₂ H ₆ O)	» Methanol (CH ₄ O)	» Toluole (C ₇ H ₈)

* with measuring function for explosion protection

Other gases on request

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