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CC28 Transmitter

For combustible gases and vapors in Ex zones





CC28 Transmitter For combustible gases and vapors in Ex zones

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 $(t_{90} \le 9 s;$ 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.

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.

Overview of gases:

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» Acetone	(C_3H_6O)	» Ethyl ad
» Acetylene	(C_2H_2)	» Ethylen
» Ammonia*	(NH ₃)	» Hexane
» Carbon monoxid	(CO)	» Hydrog
» Diethyl ether	(C ₄ H ₁₀ O)	» Isoprop
» Ethane	(C_2H_6)	» Methan
» Ethanol	(C_2H_6O)	» Methan

* with measuring function for explosion protection



CC28 with RC2 remote control

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 many applications. For special for 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.

yl acetate	(C ₄ H ₈ O ₂)	» n-Nonane*	(C ₉ H ₂₀)
ylene	(C ₂ H ₄)	» n-Butane / Isobutane	(C ₄ H ₁₀)
kane	(C ₆ H ₁₄)	» Natural gas	(HC mixture)
drogen*	(H ₂)	» Propane*	(C ₃ H ₈)
propanol*	(C₃H ₈ O)	» Propyne	(C_3H_4)
thane*	(CH4)	» Propylene	(C ₃ H ₆)
thanol	(CH ₄ O)	» Toluole	(C ₇ H ₈)
	i.		

Other gases on request

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: $t_{90} \le 9 \ s^3$

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: Il 2G Ex db eb mb [ib] IIC T4 Gb €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 function*⁴)

Functional Safety (SIL): DIN EN 61508-2: 2011

EMC:

DIN EN 50270: 2015 Radio shielding: Type class I Interference resistance: Type class II

³ Depending on gas type and sensor ⁴ See gas list





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¹ For ammonia only ² Depending on operating conditions