

Gas measuring system MF420-Ex-2.1 with ATEX approval for zones 1 and 2



- For monitoring of combustible gases and vapours or carbon monoxide
- On site calibration by one person (without opening the housing), indication of measured value and system info
- Measuring principle: Heat tone principle (WT) or electro-chemical principle (EC)
- Suitable for control units GW-S 2.1, GW-S4.1 and GW-SK 6.1



Application For the detection and monitoring of flammable, explosive, toxic gases or oxygen. Can also be used in dusty and dirty environments. Can be used as standalone measuring system or in conjunction with the gas alarm systems GW-S 2.1, GW-S4.1 und GW-SK 6.1 as a complete gas alarm facility for hazardous areas. Approved for operation in potentially explosive atmospheres/EX areas zone 1 and zone 2.

Description Gas sensor with digital display in compact wall mounting housing. Diverse gases can be monitored (see ordering table). Connection cable (shielded) 3 x 1.5 mm² Cu+ protective conductor, signal and return conductor (max. 100 Ohm line resistance). Thanks to the local display, it is possible to immediately read current measured values, perform calibration and set limit values. The concentration is output via the 4–20 mA interface for further processing.

Technical specifications

Measuring range

Version WT: 0/100 % LEL
Version EC: 0/300 ppm

Measuring principle

Version WT: Heat tone, catalytic sensor (pellistor)
Version EC: Electro-chemical sensor (Service life approx. 3 years)

Supply voltage

DC 18–30 V

Current input

Approx. 105 mA at 24 V

Operating temperature range

Ambient: -40/+60 °C, temperature class T4
-40/+50 °C, temperature class T6

Humidity

10/95 % r. H. non-condensing

Atmospheric pressure

700/1300 hPa

Housing

Wall mounting housing made of aluminium alloy/stainless steel

Ø x H: 84 x 78 mm

Weight: 1.1 kg

Degree of protection: IP 65 (EN 60529)

Output signal

4–20 mA

ATEX approvals

Ex II 2G Ex de IIC T6/T4 Gb

Options

- RS 232 interface at control unit

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PG: 4	DG			Part no.	Price €
Gas measuring system MF420-Ex-2.1 (P) methane	H	1	1	69111	
Gas measuring system MF420-Ex-2.1-C ₃ H ₈ (WT) propane	H	1	1	69004	
Gas measuring system MF420-Ex-2.1-C ₄ H ₁₀ (WT) n-butane	H	1	1	69007	
Gas measuring system MF420-Ex-2.1-C ₃ H ₈ / C ₄ H ₁₀ (WT) LPG for monitoring Liquefied Petroleum Gas	H	1	1	69009	
Gas measuring system MF420-Ex-2.1-H ₂ (WT) for monitoring hydrogen	H	1	1	69010	
Gas measuring system MF420-Ex-2.1-C ₇ H ₁₆ (WT) n-heptane	H	1	1	69013	
Gas measuring system MF420-Ex-2.1-C ₉ H ₁₀ (WT) xylene	H	1	1	69014	
Gas measuring system MF420-Ex-2.1-C ₂ H ₆₀ (WT) ethanol	H	1	1	69034	
Gas measuring system MF420-Ex-2.1-C ₃ H ₈₀ (WT) i-propanol	H	1	1	69035	
Gas measuring system MF420-Ex-2.1-C ₂ H ₂ (WT) acetylene	H	1	1	69036	
Gas measuring system MF420-Ex-2.1 (EC) for monitoring carbon monoxide (CO)	H	1	1	69037	
Adjustment (adjustment/programming costs alarm thresholds and alarm relays)					
For standard gases (methane, propane/butane, O ₂ , CO, CO ₂ , hydrogen) per sensor	-	1	1	61177	
For special gases per sensor	-	1	1	61183	

Blue part no. = in-stock items