



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



Benefits

- 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.

Versions

| | Part no. |
|--|----------|
| Gas measuring system MF420-Ex-2.1 (P) methane | 69111 |
| Gas measuring system MF420-Ex-2.1 (WT) propane | 69004 |
| Gas measuring system MF420-Ex-2.1 (WT) n butane | 69007 |
| Gas measuring system MF420-Ex-2.1 (WT) LPG for monitoring of liquefied petroleum gas | 69009 |
| Gas measuring system MF420-Ex-2.1 (WT) H ₂ for monitoring hydrogen | 69010 |
| Gas measuring system MF420-Ex-2.1 (WT) n heptane | 69013 |
| Gas measuring system MF420-Ex-2.1 (WT) xylene | 69014 |
| Gas measuring system MF420-Ex-2.1 (WT) ethanol | 69034 |
| Gas measuring system MF420-Ex-2.1 (WT) i propanol | 69035 |
| Gas measuring system MF420-Ex-2.1 (WT) acetylene | 69036 |

Blue part no. = in-stock items



| | Part no. |
|--|----------|
| Gas measuring system MF420-Ex-2.1 (EC) CO for monitoring carbon monoxide | 69037 |
| Adjustment for standard gases per sensor | 61177 |
| Adjustment For special gases per sensor | 61183 |

Blue part no. = in-stock items

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, supply 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 % UEG

Version EC: 0/300 ppm

Measuring principle

Heat tone (HT),

Electrochemical (EC)

Service life: Approx. 3 Jahre

Supply voltage

DC 18 – 30 V

Current input

Approx. 105 mA at 24 V

Operating temperature range

Ambient

Temperature class -40/+60 °C

T4:

Temperature class -40/+50 °C

T6:

Humidity/moisture

10/95 % rH, Non-condensing

Atmospheric pressure

700/1,300 hPa

Housing

Wall mounting housing

Material: 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

Ex approval

Ex II 2G Ex de IIC T6/T4 Gb

Options

- RS 232 interface at control unit