

PolyGard®

MGC-04



MGC-04
24
4 to 20 mA.

20-

MGC-04

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ÖNORM. () MGC-04 VDI 2053
EN 378, VBG 20 (NH 3),

GAS ALARM SYSTEMS

- Up to 24 analog inputs, 4 to 20 mA
- Suitable for monitoring CO, CO₂, NO, NO₂, NH₃, O₂, SO₂, H₂S, CL₂, ETO, combustible and refrigerant gases
- Simple and comfortable commissioning due to configuration with standard parameter
- Logical system menu in different languages
- Flexible configuration by programmable parameters and set points
- Five adjustable alarm thresholds for each channel
- Up to 20 alarm relays with SPDT, potential-free, max. 250 VAC, 5A.
- Failure relay with SPDT, potential-free, max. 250 VAC, 5A
- Max. 12 analog outputs, 4 mA to 20 mA
- Conform to VDI - 2053
- Shapely, durable housing
- Housing lockable (optional)
- Emergency power supply integrated (optional)
- Integrated buzzer (optional)

SPECIFICATIONS

Electrical	
Power supply	110/230 VAC 50/60Hz; 24 VAC/DC -10% + 20%
Power consumption (incl. max. AT)	
MGC-04-04-04	13 VA
MGC-04-12-XX	27 VA
MGC-04-20-XX	55 VA
MGC-04-24-XX	65 VA
Option EPS	Supply duration 60 minutes
Analog input (max. 24)	4 to 20 mA, overload- and short-circuit-protected, input resistor 200 Ω
Power supply for ext. analog transmitters	24 VDC max. 50 mA / per channel
Analog output max 12, free adjustable to each channel	4 to 20 mA, overload- and short-circuit-protected, max. load 500 Ω
Alarm relay (max. 20)	250 VAC, 5 A, potential-free, SPDT
Failure relay (1)	250 VAC, 5 A, potential-free, SPDT
Option buzzer - Acoustic pressure	87 dB (distance 1000 mm)
- Frequency	3,5 kHz
Visualization	
Display LCD	Two lines, each 16 characters, illumination
Status LED	Red = Status Alarm; Yellow = Failure
Operation	6 push-buttons
Gases ¹	
External gas transmitter	CO, CO ₂ , NO, NO ₂ , NH ₃ , O ₂ , combustible gases and Freons
Environmental	
Humidity	15 – 95 % RH non-condensing
Working temperature	-5 °C to + 40 °C
Storage temperature	0 °C to + 40 °C
Physical	
Enclosure	Plastic housing with transparent cover
Colour	RAL 7035 (gray)
Protection class	IP 65
Weight ²	
MGC-04-04-04	Approx. 2,7 kg (6.0 lbs.)
MGC-04-12-XX	Approx. 4,0 kg (9.0 lbs.)
MGC-04-20-XX	Approx. 6,0 kg (13.5 lbs.)
MGC-04-24-XX	Approx. 7,5 kg (16.5 lbs.)
Mounting	Wall mounting
Cable entry	M 16; M 20; M 25
Wire connection: Power supply	Screw type: 2,5 mm ² (14 AWG)
Relay	2 x Spring type: 0,5 to 1,5 mm ² (22 to 16 AWG)
Input	Spring type: 0,5 to 1,5 mm ² (22 to 16 AWG)
Dimensions ²	
(W x H x D) MGC-04-04-04	298 x 260 x 140 mm (11.7 x 10.2 x 5.5 in.)
MGC-04-12-XX	298 x 420 x 140 mm (11.7 x 16.5 x 5.5 in.)
MGC-04-20-XX	298 x 570 x 140 mm (11.7 x 22.5 x 5.5 in.)
MGC-04-24-XX	410 x 655 x 140 mm (16.1 x 25.8 x 5.5 in.)
Guidelines	EMC Directives 89/336/EEC; CE Low Voltage Directive 73/23/EEC VDI 2053
Warranty	One year on material

¹ Other gases on request ² Data for plastic enclosure

ORDER INFORMATION

MGC-04-00-00-00000

Options	
1XXXX	Emergency power supply
XX1XX	Housing lockable
XXX1X	Integrated buzzer
XXXX0	Language German
XXXX1	Language English
XXXX2	Language USA
XXXX3	Language Netherlands
XXXX4	Language Danish
XXXX5	Language Czech
XXXX6	Language French

Number of MP / monitored sections	
04	04 MP / 1 MS
08	08 MP / 2 MS (1 x EP-04)
12	12 MP / 3 MS (2 x EP-04)
16	16 MP / 4 MS (3 x EP-04)
20	20 MP / 4 MS (4 x EP-04)
24	24 MP / 4 MS (5 x EP-04)

Version (max. modules)	
04	GC-04
12	GC-04 + 2 x EP-04
20	GC-04 + 4 x EP-04
24	GC-04 + 5 x EP-04

Enclosure	
04	Plastic enclosure (standard)
14	Metal enclosure

Example: MGC-04 with 12 measuring points, 1 MS, language English, buzzer.
 Order No. **MGC-04-12-12-00011**

CONNECTING DIAGRAM

(Example MGC-04-04-04-01000)

