Technical specifications: GMA22-MW / GMA22-MS



Display & control elements



Display & control elements			
Status-LEDs:	4 status LEDs for alarms and operating s	tates	
Display:	2,2" graphic display		
Buttons:	3 buttons		
Alarm:	Buzzer max.100dB(A) adjustable		
Environmental conditions			
Mounting:	only indoors up to 2000m above sea lev	el	
Storage:	-25+60°C 595%r.h. (recommended 0+30°C 4060%r.h.)		
Operating conditions GMA22-MW:	-20+50°C 595%r.h. (without internal PSU)		
	-20+45°C 595%r.h. (with internal PS		
Operating conditions CMA22 MC	-20+40°C 595%r.h. (with internal PSU and max. 250mA load at U _{out}) -20+55°C 595%r.h. (without internal PSU)		
Operating conditions GMA22-MS :	-20+50 C 595%r.h. (with internal PSU and max. 150mA load at U_{out}) -20+45°C 595%r.h. (with internal PSU and max. 250mA load at U_{out})		
Power supply (PSU)			
rowei supply (rso)	GMA22 with internal PSU	GMA22 without internal PSU	
Operating voltage Ue:	100-240V AC mains voltage 50-60Hz	24V DC (20-30V DC) through stabilized	
· - •	_	SELV or PELV power supply	
Power consumption:	max. 25VA (with transmitters)	max. 6VA (without transmitters)	
_	max. 20W (with transmitters)	max. 5W (without transmitters)	
Fuses:	F1: T315mA changeable (for TRM)	F1: T630mA changeable (for TRM)	
	F2: 250mA not changeable (for GMA inte	ernal)	
Transmitter connections			
	GMA22 with internal PSU	GMA22 without internal PSU	
Supply output U _{out} :	24V DC ±5% of internal power supply max. 300mA	24V DC (20-30V DC) of external power supply max. 600mA	
Analog signal input I _{IN} :	4-20mA or 0,2-1mA (4-20mA with ACD	(capability)	
Analog signal input i _{IN} .	Tolerance*: ±0,3%MR@4-20mA or ±1,2%MR@0,2-1mA (MR=measuring range)		
	(load approx. 50100Ω, Imax=70mA per		
Digital signals RS485 bus:	RS485; Half-Duplex; max. 38400 Baud		
Measurement processing			
Update time:	1s		
Setting times for RS485:	Rise time t_{50} <2s or t_{90} <2sec	Decay time t_{50} < 2s or t_{10} < 2sec	
for 420mA:	Rise time t_{50} <2s or t_{90} <4sec	Decay time t_{50} <2s or t_{10} <4sec	
for 0,21mA:	Rise time t_{50} < 6s or t_{90} < 10sec	Decay time t_{50} < 6s or t_{10} < 10sec	
	(extended by setting times of the gas measuring transmitters)		
Standby delay:	<40s (can be extended by running-in tin	nes of gas measuring transmitters)	
RS485 output			
RS485 bus:	RS485; Half-Duplex; max. 38400 Baud (o	iniy ior GMA200 relay modules)	
Relais outputs	A select NO		
Contacts of the GMA22-MS :	4 relays NO		
Contacts of the GMA22-MW :	4 relays SPDT (GMA22 without internal PSU) 3 relays SPDT 1 relay NO (GMA22 with internal PSU)		
Insulation distances GMA22-MS:	Double insulation between adjacent rela	3 relays SPDT, 1 relay NO (GMA22 with internal PSU)	
Insulation distances GMA22-MS.	Basic insulation between adjacent relays		
Contact load capacity:	3A/250V AC or 3A/30V DC		
Minimum switching current:	10mA		
Minimum switching voltage:	5V		
Data logger (optional)	max. 2GB microSD card with FAT formati	ting (FAT16)	
USB connection	Mini USB socket for device configuratior	n with PC	
	garador		



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3 according to IEC 62262	
3-wire ≥0,75mm² LiYY, NYM (for GMA supply)	
, LiYCY, Y(St)Y (for transmitters)	
5 pieces M16x1,5 (for cable diameter 4,5-10mm)	
0,51,0mm ² cross section (1,5mm ² for solid conductor)	
ence emission: type class I, interference immunity: type class II)	
n degree 2, overvoltage category II for mains supply)	
n degree 2, overvoltage category III for relay contacts)	
nc	

* This is only the measurement tolerance of the GMA. The transmitters have additional tolerances.

