## Technical specifications: GMA200-MT6 / GMA200-MT16



15 status LEDs for alarms, operating and relay states	
2,2" graphic display	
5 buttons	
buzzer max. 70dB(A) adjustable	
in the switch cabinet or in the wall housing,	indoors
in the switch cabinet or in the wall housing, indoors on a mounting rail TS35 according to DIN EN 60715	
up to an altitude of 2000 m above sea level	
-25+60°C   099%r.h. (recommended: 0	+30°C   4060%r.h.)
-20+50°C   099%r.h.	
GMA200-MT6	GMA200-MT16
	stabilized SELV or PELV power supply
	24V DC (20-30V DC permissible)
•	max. 5W
	max. 5W (without transmitter)
	F1=T 500mA
	GMA200-MT16
	not possible
6x 4-20mA or 0,2-1mA	16x 4-20mA or 0,2-1mA
Tolerance*: ±0,3%MR@420mA or ±1,2%N	1R@0,21mA (MR=measuring range)
Load approx. 50100Ω, Imax=70mA perma	nent / 500mA short time
RS485; Half-Duplex; max. 38400 Baud	
1s (If there are more than 16 transmitt	ters and relay modules on the same TRM bus and the
data transmission is only at 9600 baud, the cycle time is extended from 1.0 to max. 1.3 s,	
	Decay time $t_{50}$ <2s or $t_{10}$ <2sec
	Decay time $t_{50}$ <2s or $t_{10}$ <4sec
	Decay time $t_{50}$ < 6s or $t_{10}$ < 10sec
RS485: Half-Duplex: max_230400 Baud	
(for GMA200 relay modules, control centre, PC, PLC or gateway)	
RS485; Half-Duplex; max. 38400 Baud (only for GMA200 relay modules)	
& relays with normally onen contact	
5 5 1	
	or SIL applications according to ENLEGAD2
,,	
4-20mA with linear transfer function (load a	nay 560Q)
±υ,5%IVIK@1030 C OF ±0,8%IVIK@-2050	
0-3V DC (alarm acknowledgement occurs on contact with GND; $U_{MAX}$ =30V DC)	
	<ul> <li>2,2" graphic display 5 buttons buzzer max. 70dB(A) adjustable</li> <li>in the switch cabinet or in the wall housing, on a mounting rail TS35 according to DINE up to an altitude of 2000 m above sea level -25+60°C   099%r.h. (recommended: 0 -20+50°C   099%r.h. (recommended: 0 -20+50°C   099%r.h.</li> <li>GMA200-MT6 stabilized SELV or PELV power supply 24V DC (20-30V DC permissible) max. 5W (without transmitter) max. 30W (with transmitter) max. 30W (with transmitter) F1=T 500mA (for GMA200) F2=M 1A (for transmitter)</li> <li>GMA200-MT6 24V DC (20-30V DC see above) 6x 150mA or Iges=900mA 6x 4-20mA or 0,2-1mA</li> <li>Tolerance*: ±0,3%MR@420mA or ±1,2%N Load approx. 50100Ω, Imax=70mA perma RS485; Half-Duplex; max. 38400 Baud</li> <li>1s (If there are more than 16 transmitti data transmission is only at 9600 b so that the time of 1 s cannot be m</li> <li>Rise time t<sub>50</sub>&lt;2s or t<sub>90</sub>&lt;2sec</li> <li>Rise time t<sub>50</sub>&lt;2s or t<sub>90</sub>&lt;2sec</li> <li>Rise time t<sub>50</sub>&lt;2s or t<sub>90</sub>&lt;10sec</li> <li>(extended by setting times of the gas measi &lt;40s (can be extended by running-in times</li> <li>RS485; Half-Duplex; max. 230400 Baud (for GMA200 relay modules, control centre, RS485; Half-Duplex; max. 230400 Baud (for GMA200 relay modules, control centre, RS485; Half-Duplex; max. 38400 Baud (only</li> <li>8 relays with normally open contact 3A/250V AC or 3A/30V DC 10mA</li> <li>SV max. 100 per year (per relay contact), valid f Basic insulation between the relays: 1&amp;2, 3&amp; Double insulation between the relays: 2&amp;3, 4-20mA with linear transfer function (load r ±0,3%MR@1030°C or ±0,8%MR@-2050</li> </ul>



## Technical specifications: GMA200-MT6 / GMA200-MT16



Data logger (optional)	max. 2 GB microSD card with FAT formatting (FAT16)	
USB connection	Mini USB socket for device configuration with PC	
Housing		
Attachment:	on mounting rail TS35 according to EN 60715	
Protection class:	IP20	
Material:	Plastic	
Dimensions:	162 x 97 x 62 mm (W x H x D)	
Weight:	370g	
Cable junction		
Cable:	2-4 wires 0.5-1.5 mm <sup>2</sup> LiYY, NYM (for GMA200 supply)	
	2-4 wires 0.5-1.5 mm <sup>2</sup> LiYY, LiYCY (for transmitters)	
	2-wire 1x2x0,22 mm² BUS-LD (for GMA bus with length >10 m)	
Terminal blocks:	0,08.2,5mm <sup>2</sup> cross-section	
Approvals/Tests		
Electromagnetic Compatibility:	DIN EN 50270:2015 (Interference emission: type class I, interference immunity: type class II)	
Electrical safety:	EN 61010-1:2010 (Pollution degree 2, overvoltage category III for relay contacts)	
Functional safety:	EN 50402:2017; IEC 61508-1 bis -7:2010 (SIL2/SC3)	
	EN 50271:2018; EN 62061:2016; ISO 13849-1:2015	
Metrological suitability:	EN 60079-29-1:2016 (EX); EN 50104:2010 (OX); EN 45544-1/-2/-3:2015 (TOX)	
Service life	20 years	

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

