Click Here* for more information or to view this product on The Safety Equipment Store® website.

Technical specifications: GMA200-MT6 / GMA200-MT16



| | Image: A set of the set of the | |
|--|---|--|

Display & control elements

| Status-LEDs: Display: Buttons: Alarm: | 15 status LEDs for alarms, operating and relay states 2,2" graphic display 5 buttons buzzer max. 70dB(A) adjustable | | |
|--|---|--|--|
| Environmental conditions Mounting: for storage: for operation: | 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. | | |
| Power supply | | | |
| external supply with: Operating voltage Ue: Power consumption: Fuse: | GMA200-MT6 stabilized SELV or PELV power supply 24V DC (20-30V DC permissible) max. 5W (without transmitter) max. 30W (with transmittern) F1=T 500mA (for GMA200) F2=M 1A (for transmitter) | GMA200-MT16 stabilized SELV or PELV power supply 24V DC (20-30V DC permissible) max. 5W max. 5W (without transmitter) F1=T 500mA | |
| Fransmitter connections | | | |
| Supply outputs: Analog input signals I _{IN} : | GMA200-MT6 24V DC (20-30V DC see above) 6x 150mA or Iges=900mA 6x 4-20mA or 0,2-1mA | GMA200-MT16 not possible 16x 4-20mA or 0,2-1mA | |
| Digital signals TRM bus1+2: | Tolerance*: ±0,3%MR@420mA or ±1,2%N Load approx. 50100Ω, Imax=70mA perma RS485; Half-Duplex; max. 38400 Baud | · · · · · · · · · · · · · · · · · · · | |
| Measurement value processing Update time: | | ters and relay modules on the same TRM bus and the aud, the cycle time is extended from 1.0 to max. 1.3 s, jaintained) | |
| Adjustment time for RS485: for 420mA: for 0,21mA: Ready delay: | Rise time $t_{50} < 2s$ or $t_{90} < 2s$ orRise time $t_{50} < 2s$ or $t_{90} < 4s$ cDecay time $t_{50} < 2s$ or $t_{10} < 2s$ cRise time $t_{50} < 2s$ or $t_{90} < 4s$ cDecay time $t_{50} < 2s$ or $t_{10} < 4s$ cRise time $t_{50} < 6s$ or $t_{90} < 10$ secDecay time $t_{50} < 6s$ or $t_{10} < 10$ sec(extended by setting times of the gas measuring transmitters)<40s (can be extended by running-in times of gas measuring transmitters) | | |
| | | | |
| RS485 outputs GMA bus: RS485 bus: | 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) | | |
| Relay outputs Contacts: Contact load capacity: Minimum switching current: Minimum switching voltage: Switching frequency: Insulation clearances: | 8 relays with normally open contact 3A/250V AC or 3A/30V DC 10mA 5V max. 100 per year (per relay contact), valid for SIL applications according to EN 50402 Basic insulation between the relays: 1&2, 3&4, 5&6, 7&8 Double insulation between the relays: 2&3, 4&5, 6&7 | | |
| Analogue outputs I _{out} 1+2: Accuracy: | 4-20mA with linear transfer function (load max. 560Ω) $\pm 0,3$ %MR@1030°C or $\pm 0,8$ %MR@-2050°C (MR=measurement/signal range) | | |
| Alarm acknowledgement inputs Reset 1+2: | 0-3V DC (alarm acknowledgement occurs o | n contact with GND; U _{MAX} =30V DC) | |



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 ² LiYY, NYM (for GMA200 supply) | |
| | 2-4 wires 0.5-1.5 mm ² LiYY, LiYCY (for transmitters) | |
| | 2-wire 1x2x0,22 mm² BUS-LD (for GMA bus with length >10 m) | |
| Terminal blocks: | 0,08.2,5mm ² 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.

