GMA 200-RT / RTD

Fixed Gas Relay Module

GMA 200-RT *

GMA 200-RTD **

GMA 200-RT / RTD

Relay Module

- Extends the GMA 200 controller by 16 additional freely programmable relays
- Ability to connect up to 4 relay modules for a total of 64 additional relays
- Intuitive, backlit graphical LCD with "traffic light function" (green, amber, red)
- SIL certification
- DIN rail mounting

* GMA 200-RT - Relay module
** GMA 200-RTD - Relay module with graphical display

GfG Instrumentation

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GMA 200-RT / RTD Relay Modules Extend The Potential of The GMA 200 System

GfG

For more than 50 years, the key goal of GfG has been to meet the highest demands of occupational health and safety, industrial equipment reliability and environmental protection. This goal has been reached by developing innovative and reliable gas warning systems. Development of the new GMA 200 controller satisfies these requirements while taking into account suitability testing in line with ATEX Directive 94/9/EC. If switching functions for explosion protection are required, the GMA 200 controller is the optimal solution. It also meets the requirements for gas warning systems in non-hazardous locations.

The GMA 200-RT / RTD Relay modules

Using a GMA 200-RT / RTD relay module, it is possible to extend the GMA 200 controller by 16 additional freely configurable relays. A total of 4 additional relay modules and thus 64 additional relays can be managed through the GMA 200 controller. Digital connection of the GMA RT / RTD relay module to the GMA 200 controller enables the local positioning of the relay modules. This local installation of the relay module results in significant cost savings through reduced cabling and installation costs.

GMA 200-RTD Graphical display

The clearly structured layout of the GMA 200-RTD relay module with graphical display enables the quick detection of hazardous situations. Currently measured values are displayed on the LCD graphical display. In the event of gas alarms, the display lighting is automatically activated with a red background.

Operation via keyboard on the GMA 200- RTD display

Five buttons enable operation at the GMA 200. The main functions of the keyboard are the acknowledgement of alarms and the menu-driven operation. Information on the status of the relays can be retrieved in the operating menu.
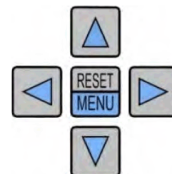
GMA 200-RTD with display for remote measured value display

Specifications

GMA 200-RT / RTD

Ambient Temperature
Operation: -4 to +122°F / -20°C to + 50ºC | 0..99 % RH (Non-condensing)
Storage: -13 to +140°F / -25°C to + 60°C | 0..99 % RH (recommended 0..86°F / +30°C (Non-condensing)
Site of installation: in a control cabinet or in a wall housing up to a height of 1.2 miles / 2,000 m above sea level

USB Connection
Mini USB port for device configuration through PC

Power Supply
2 x 24 V DC (20-30 V DC permissible)
Fuses: F1 = slow-blow T 500 mA
(1 x redundant power supply)

Power Consumption
Maximum 6 W

Alarm Acknowledgement Inputs
Reset: 0-3 V DC (alarm acknowledgement occurs at contact with GND; U_{MAX}=30V DC)

Relay Outputs
Contacts: 16 relays each with a changeover contact
Contact rating: 3 A / 250 V AC or 3 A / 30 V DC
Insulation distances: Basic insulation between the relays: 1&2, 2&3, 4&5, 5&6, 7&8, 8&9, 10&11, 11&12, 13&14, 14&15
Double insulation between the relays: 3&4, 6&7, 9&10, 12&13, 15&16

GMA 200-RT Display and Control Elements
19 status LEDs for operating and relay statuses

GMA 200-RTD Display and Control Elements
19 status LEDs for operating and relay statuses, 2.2 inch graphical display and 5 buttons

Connection Cables
Terminal blocks: 0.8..2.5 mm² cross section
Cable: 2-4 wire 0.5-1.5 mm² LiYY, NYM (for GMA 200 supply)
2-wire 1 x 2 x 0.22 mm² BUS-LD (for GMA Bus with a length > 33 feet / 10 m)

Housing
Attachment: on mounting rail TS35 according to DIN 60715
Protection class: IP20
Material: Plastic
Weight: approximately 410 g
Dimensions: 6.4 x 3.8 x 2.4 inches / 162 x 97 x 62 mm (W x H x D)

RS485 Connection
GMA Bus: RS485; half-duplex; galvanically isolated; max. 230400 Baud (for GMA 200-M, control center, PC, PLC or Gateway)

Approvals / Tests
Electrical safety:
EN 61010:2010
Degree of soiling 2
Overvoltage category III for relay contacts

Electromagnetic compatibility:
EN 50270:2006
Emitted interference type class I
Interference resistance type class II

Specifications subject to change without notification

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