Technical specifications:
GMA400

Anschlussmöglichkeiten	128 transmitters (max. 16 of them analog and / or ACDC*) 32 virtual transmitters for calculated mean values and environmental parameters 64 warning signs (via RS-485-BUS)
Zones	8 zones with 2 ventilation outlets each
Inlets	16 analog inlets: 4–20 mA (max. 50 Ohm input restistance) 8 digital inlets: Acknowledgements of alarms, can be configured freely 5x RS-485-BUS e.g. for connecting external relay modules or digital transmitters in BUS wiring 1x RS-485-BUS for digital transmission of measurement and output data to a superordinate central or, for master-functionality GMA400s, for connecting relay modules
Outlets	8 relays (NO contacts): 6 relays which can be configured freely for single alarms for each measuring point and alarm threshold, configuration of collective or group alarms, fault notifications and voting functions 1 relay for maintenance (closed current principle) 1 relay for faults (closed current principle) 1 ethernet interface (10/100 Mbit/s) for network and internet access
External relays	Up to 128 additional, freely-configurable relays (8 additional relay modules with 16 relays each) Up to 64 additional, freely-configurable relays (16 additional relay modules[1] with 4 relays each) Can be configured for individual alarms for each measuring point and alarm threshold, configuration of collective and group alarms, fault notifications and voting functions
Alarms	4 independent threshold alarms for each measuring point (Alarm 1, Alarm 2, Alarm 3, Alarm 4) can be set freely within the measuring range
Alarm functions	» values exceeding / falling below the threshold » acknowledgeable (additional buzzer only) » not acknowledgeable » latching / not latching » Alarm with turn on delay (up to max. 3 minutes) » Alarm with turn off delay (up to max. 60 minutes)
Data storage	Measured values can be stored on internal storage, SD card and via USB type C stick for permanent data recording of measured values, alarms and faults, saving intervals can be set (5s – 60 min), recording of current values and mean values, minimum / maximum concentration, can be selected for each measuring channel
Environmental conditions	
Temperature (operation):	-20 to +50 °C
Temperature (storage):	-30 to +60 °C
Humidity:	0 to 99 % RH
Power supply	2 x 24 V DC, 20–30 V (1 x redundant power supply)
Power consumption	
GMA400:	5 W without transmitter
GMA400-RT relay module:	6 W
Display and control elements:	
Display:	LC color display / 2.4'' with 320 x 240 pixels
Interface:	5 control buttons (RESET/MENU, Up, Down, Right, Left)
LEDs:	28 status LEDs (Green, Yellow, Red, Blue)
Buzzer:	Integrated, for local alarms
Housing	
Dimensions:	162 x 97 x 62 mm (W x H x D)
Mounting:	On mounting rail TS35
Material:	Plastic
Weight:	370 g
Protection Class:	IP20
Certification / Tests	
Electromagnetic compatibility:	EN 50270:2015 (Interference Emission: type class I, Interference resistance: type class II)
Electrical safety:	EN 61010-1:2010 (Contamination degree 2, overvoltage category III for relay contacts)

**Number of analog and ACDC capable transmitters, can be expanded to 128 with GMA400-AT24 modules*
[1]Function available soon

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