GMA400-AT24

Expansion Module with ACDC Technology

The GMA400-AT24 is an expansion module for the GMA400 controller and allows the connection of up to 24 analog or ACDC-capable transmitters via 4–20 mA lines. Thanks to patented ACDC technology, digital communication data can be transmitted over existing analog signal lines, provided the transmitters are ACDC-capable. This enables efficient modernization of existing gas detection systems without requiring extensive rewiring.

The module communicates via the RS-485 bus with the GMA400 controller (up to 1,200 m transmission distance), which can monitor up to 128 measurement points. This makes the GMA400-AT24 ideal for the gradual replacement of analog transmitters with ACDC-compatible GfG models and offers a future-proof solution for fixed gas detection systems in industrial and process applications.

Installation is simple via DIN rail mounting (TS35). The "GMAConfig" software is required for parameterization. If the connected transmitters support remote calibration, it is possible to initiate this from the GMA400 controller.



Technical Specifications GMA400-AT24:

Function:	Expansion module for the GMA400 for connecting of up to 24 analog or ACDC-compatible transmitt
Communication:	RS-485 (Modbus) between GMA400 and AT24
Transmission distance:	Up to 1,200 m (depending on baud rate)
Supply voltage:	24 V DC (SELV/PELV)
Power consumption:	5 W (without Transmitter)
Environmental conditions:	Temperature (storage): -20 to +60 °C Temperature (operating): -20 to +50 °C Relative humidity: 0 to 99% RH
Transmitter inputs:	24 channels, 4–20 mA analog / ACDC interface
Bus speeds:	9,600 – 230,400 Bit/s (depending on controller type)
Compatible controllers:	GMA400
Mounting type:	TS35 DIN rail per DIN EN 60715
Environment:	Indoor use, fixed installation, not for Ex zones; transmitter can be connected in Ex zones via galvanic isolation
Housing:	Compact DIN rail housing, 24 V terminal blocks, USB Type-C interface for parameterization, IP20 protection rating
Dimensions:	160 x 91 x 62 mm (W x H x D)
Software configuration:	"GMAx00Config" PC software
Approvals / Standards:	Designed in accordance with EN 50270, EN 50402, EN 60079-29-1, ISO 9001:2015
Typical application:	Expansion of GMA400 systems for the modernization of analog gas detection systems

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