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▶ UPA III

16 or 32 channel digital controller

Product description

The **UPA III** multi-channel gas controller is designed to detect the presence of toxic, combustible and asphyxiating gases in many tertiary and industrial applications. Small size and ease of use are the main advantages of this excellent value for money controller.

Very complete when it comes to inputs/outputs, this digital controller is able to control up to 32 RS485 gas sensors from the **NB III** series (for safe areas) or **NS III** (ATEX 1 zones). Available with 1 bus or 2 buses that can each receive 16 digital sensors, this controller presents real potential for savings in wiring and installation.

The **UPA III** controller with an excellent quality/price ratio has many advantages such as great modularity, a large LCD screen, 4 alarm levels per channel, the alarm history over the last 34 days and the possibility of inserting an 8 analog 4-20 mA input card (specific sensors) in addition to the digital inputs.

▶ The UPA III detection unit advantages

- Up to 32 digital inputs + 8 analog 4-20 mA inputs
- Large backlit LCD display
- 5 serial alarm relays + 2 signaling relays
- 1 Modbus RTU output for connection with a supervision system
- 4 alarm levels by gas sensors
- 1 USB port for configuration by PC
- Alarm history over the last 34 days (FIFO)

▶ Codifications

Code	Description
10100003	UPA III 16 - Detection unit: 1 RS485 input (1 bus of 16 transmitters)
10100004	UPA III 32 - Detection unit: 2 RS485 inputs (2 buses of 16 transmitters)
10200019	230 V AC / 15VA power supply
10200020	Relay module - 7 relays, 250 V / 10 A
10200021	Modbus module - RS485 Modbus RTU output
10200022	4-20mA module - 8 4-20mA inputs
10200023	Memory module - Internal memory with battery
10200026	Digital input module - 2 digital inputs

Technical specifications

Function: Multi-channel measurement and alarm controller

Capacity / Number of sensors:
- 2 bus of 16 RS485 sensors (DEGA protocol) or up to 32 digital NB III or NS III sensors
- 8 4-20 mA analog inputs

Alarm: 4 alarm levels per channel

Supply voltage:
- 8-30 VDC / 24 VDC nominal
- 230 Vac (option)

Internal recording capacity:
- Capacity adjustable from 1 to 255 seconds
- 34 days with 1 point every 60 seconds

Exits:
- 5 relay outputs 250V / 10A
- 2 signaling outputs (maximum 24V / 0.4A)
- 1 Modbus output
- 1 USB port (PC configuration)

Connections:
- 4-20 mA: shielded cable 3 x 1 mm (max. 1200 m)
- RS485: shielded cable 4 x 0.8 mm (max. 1200 m)

Protection index: IP 54

Dimensions (WxHxD): 280 x 200 x 85 mm

Weight: 1.4 kg

Operating conditions:
- Temperature: -20 °C to + 60 °C
- Relative humidity: 0 to 95% RH (non-condensing)