



GEMOS I/O module for installation in the GEMOS Box or for mounting on the GEMOS DIN rail mounting plate

GEMOS DIN rail mounting plate and GEMOS Box (accessories)

The GEMOS I/O module (GIO) enables simple and convenient connection of messages via binary and analogue inputs and the switching of digital outputs in GEMOS and GEMOS access.

16 detection lines and eight relays can be displayed as individual detectors with their states in GEMOS, linked and operated from there. For each detection line, voltage or resistance measurement can be configured individually. All detection lines have a common electrical ground. Sensors or contacts can be connected, configured and then displayed and linked directly in GEMOS. The relays can be switched directly or depending on action plans.

The GEMOS universal bus, which is operated by the GEMOS controller, connects the GIO to the GEMOS.

The technical availability can be increased by redundant bus connections and masters (option).

Available as euroboard for installation in the GEMOS Box or for mounting on the GEMOS top-hat rail support plate.

Features

- 2 connections for the GEMOS universal bus (RS-485), electrically separated
- 128-bit AES encrypted transmission on the GEMOS universal bus (optional)
- Increased availability through redundant bus connection (optional)
- 16 universal inputs, individually configurable as resistance- or voltage-monitored detection lines, as Digital, differential or multi-state lines or analogue detection lines with analogue measured values (e.g. Pt1000, 0-10 V) or counter values
- 2 bipolar optocoupler inputs
- 1 sabotage contact monitoring line with resistance monitoring, connection of a lid contact possible
- 8 relay outputs (changeover contact)
- 3 diagnosis LEDs
- also available as variant GIO-RACK with VG ledge (20003) for installation in the GEMOS 19" rack (20009)



Technical specifications

Product	GEMOS I/O module
Power supply	9 to 28 V DC
Power consumption	typically approx. 2.5 W, maximum 9 W
Connections	2 connections GEMOS universal bus RS485, electrically separated via plug connector with screw terminal 16+1 universal inputs up to 30 V DC via WAGO plug-in terminals 2 bipolar optocoupler inputs 5-30 V AC/DC via WAGO plug-in terminals 8 relay outputs up to 30 V DC 0.5 A via WAGO plug-in terminals
Dimensions W x H x D	160 mm x 21 mm x 100 mm
Weight	approx. 0.2 kg
Operating temperature range, moisture range	0 to 70 °C, 10 to 90 % non-condensing humidity
Storage temperature range, moisture range	-10 to 70 °C, 10 to 90 % non-condensing humidity
Warnings	Observe the warnings in the manual. Commissioning only by trained personnel. Operate indoors only.
Disposal	To be treated as electronic waste according to WEEE
Article number	20004
Order number / article number SAP	ELA-G-20004 / B-55352-00-0-4
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