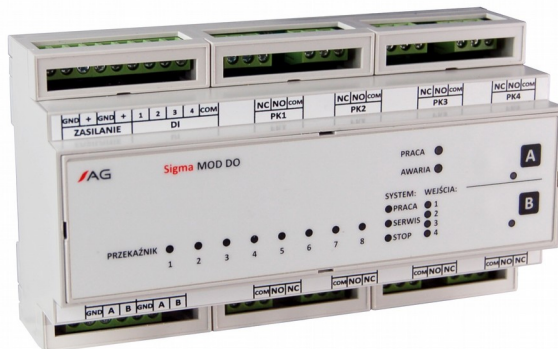


Control Unit Module

Sigma MOD DO

Product code: PW-033-C



Reliability



Integrity



Innovations

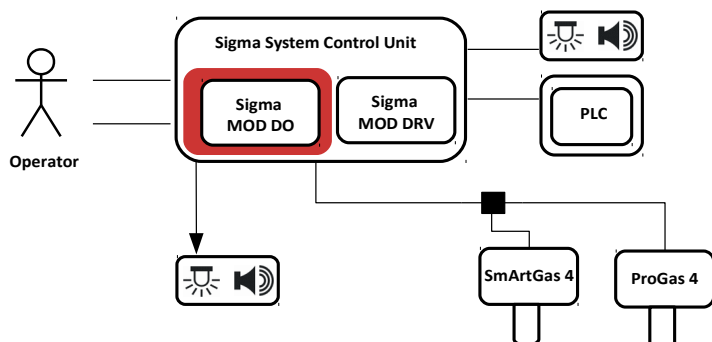
Information about the product

The Control Unit Module Sigma MOD DO is a component of the Gas Safety System Sigma Gas. The module's functions include: communication with gas detectors, control of visual and sound indicators by means of contact outputs, transmission of the status of the gas monitoring network to other external systems via both its RS-485 digital link and contact outputs, display of system status to the operator by means of visual indicators and an integrated buzzer, and operator inputs for the control of the gas monitoring network, including, binary inputs and the RS-485 digital link.

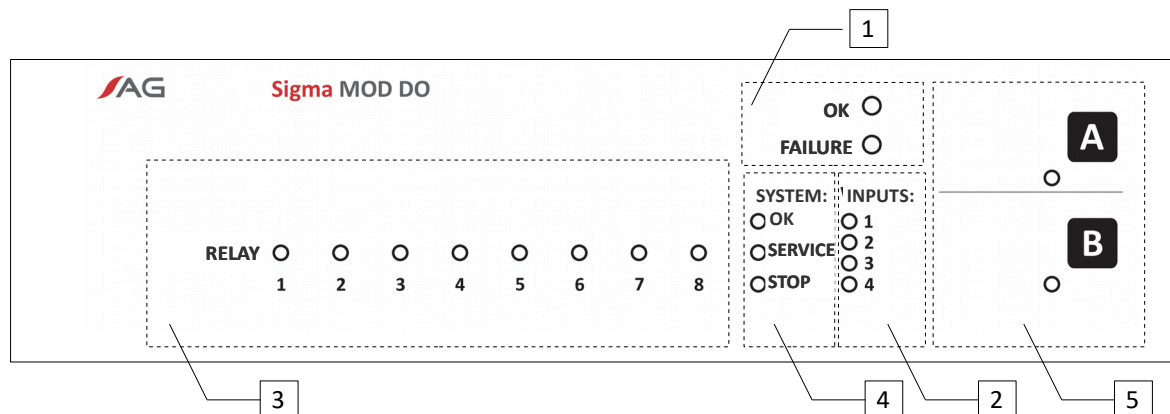
Basic functionalists:

-  handling up to 32 detectors,
-  8 relays outputs,
-  4 binary input,
-  presentation of the relays status,
-  control of the entire system operation.

Location and role of the device in Gas Safety System



User interface

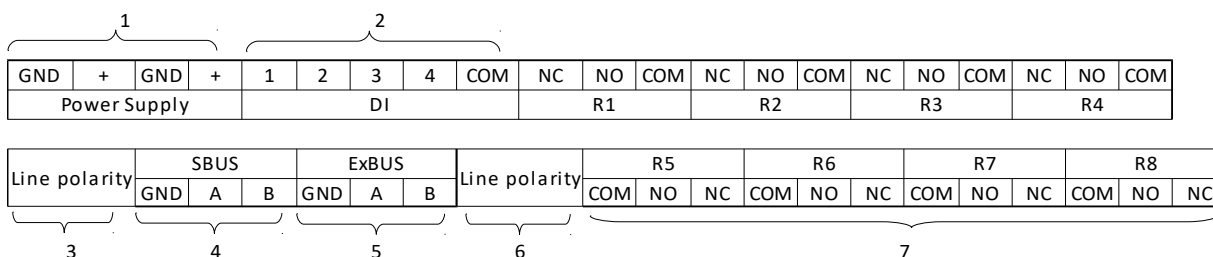


Front panel of Control Unit Module Sigma MOD DO consist of the following areas:

1. device status area,
2. status area for digital inputs DI,
3. status area for relays,
4. system status (information exchange mode for the Sigma Bus),
5. keypad area.

Detailed information on marking the hardware configuration to determine the product code can be found in the User Manual.

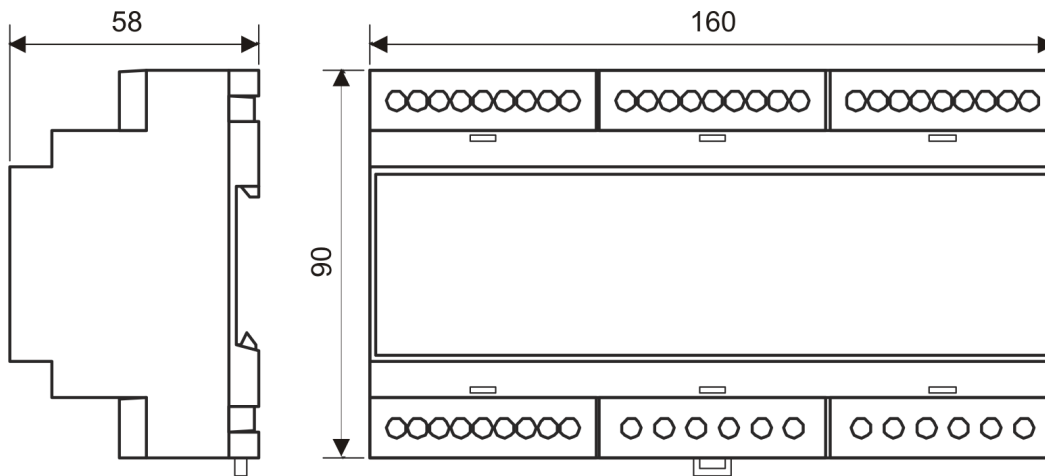
Electrical interface



No.	Name	Pin	Description
1	Power Supply		Device power supply port
		GND	Negative. Both "GND" terminals are internally connected
		+	Positive. Both "+" terminals are internally connected
2	DI		Binary inputs
		1-4	External alarm input DI1 – DI4
		COM	Common terminal of external alarm
3	Line polarization		Configuration of the polarisation of the SBUS port
4	SBUS		System communication port. Used for data exchange between devices in Sigma Gas System
		A	Signal line A
		B	Signal line B
		GND	Negative supply pole

No.	Name	Pin	Description
5	SBUS		Communication port
		A	Signal line A
		B	Signal line B
6	Line polarity		Configuration jumpers for the ExBUS port
		GND	Negative. Both "GND" terminals are internally connected
7	R1 – R8		Relay outputs
		COM	Common terminal of relay
		NO	Normally open contact of relay
		NC	Normally close contact of relay

Dimension



Technical specification

Power supply	10 – 34 V DC
• Voltage Vcc	5 W
• Power	
Environment	
• Ambient temperatures	-10 – +50 °C
• Humidity	10 – 90% long term, without condensation
Stopień IP	IP20
Digital input parameters	
• R _{IN}	10 kΩ
• Inactive	0 – 1 V
• Active	10 – 34 V
	Any polarity
Parameters of binary outputs	
• Relay	Floating contacts, NO/NC 230 V AC / 3 A 230 V DC / 0.25 A Not protected against overloading

Digital communication parameters	
• Port SBUS	RS - 485
• Electric standard	Sigma Bus
• Communication protocol	
• Port ExBUS	RS - 485
• Electric standard	Modbus ASCII, 19200 b/s 7E1
• Communication protocol	optional: Modbus RTU, 19200 b/s 8N1
Integrated signalling equipment (visual)	LED controls
Integrated signalling equipment (audible)	70 dB, 0.1 m distance
Protection class	III
Cable glands (cable diameter range)	1 – 2 mm ²
Enclosure material	Self – extinguishing PPO
Weight	0.4 kg
Mounting	On DIN-35 / TS35

Product marking

Product code	Device
PW-033-C	Sigma MOD DO Control Unit Module

ATEST GAZ

Reliable and Innovative Gas Detection & Safety Systems

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