

Control Unit

Teta MOD Control 1

Product code: PW-108-A



Innovations



Reliability



Cost efficiency



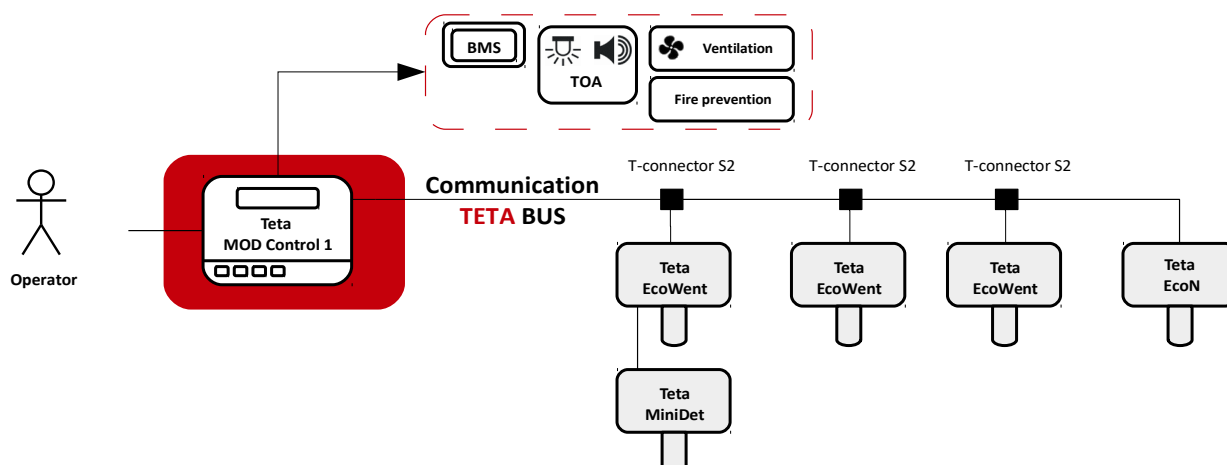
Information about the product

Control Unit Module Teta MOD Control 1 is a device designed as a part of the Gas Safety Systems Teta Gas. The module uses the Digital Data Transmission – Teta Bus to enable both power supply and **addressable communication** with field gas detectors by means of merely **a single pair of wires**. Teta MOD Control 1 is responsible for communication with Teta gas detectors, processing field signals, indication of the system status for the operator as well as overall control of the system operation.

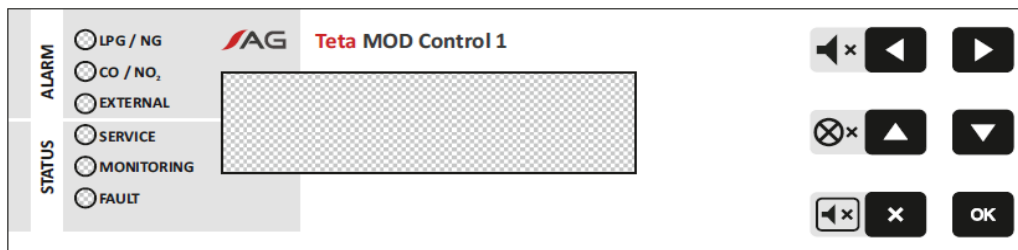
Key advantages of the module:

- handling up to 100 gas detectors,
- 6 relay outputs,
- 2 binary inputs,
- independent control outputs for each gas to be detected,
- identification of locations with gas hazard

Location and role of the device in Gas Safety System

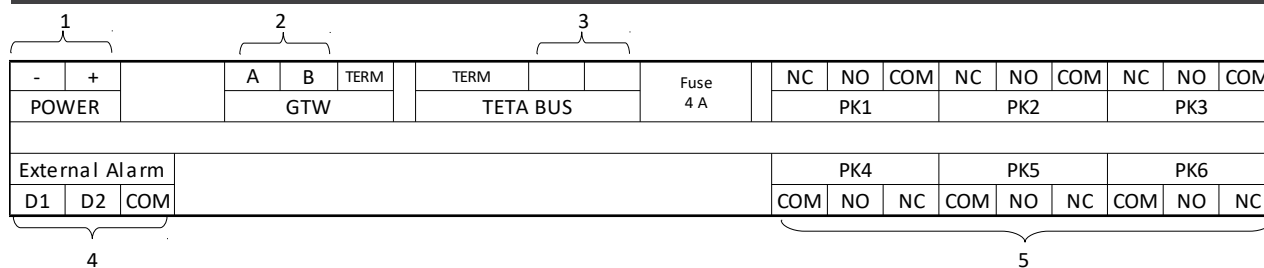


User interface



Upon having the Teta MOD Control 1 module booted up the displays the main screen with the system view. The screen contains key information about the system, such as the number of detectors included into the system with their statuses as well as the status of the control unit, history of events and status of signal devices. The interface is operated by means of a keypad – the detailed description is provided in the User Manual.

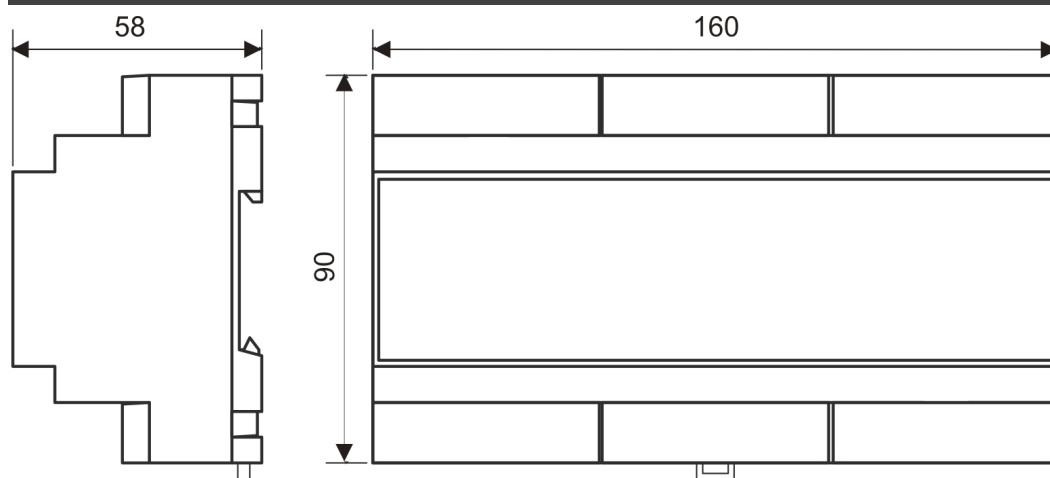
Electrical interface



No.	Name	Pin	Description
1	Power		Device power port
		-	Negative. Both "GND" terminals are internally connected
		+	Positive. Both "GND" terminals are internally connected
2	GTW		Communication port (currently inactive)
		A	Signal line
		B	Signal line
3	Teta BUS		System communication port. Used to connect devices of the Teta series.
		A	Power supply and control line for detectors of the Teta series
		B	Power supply and control line for detectors of the Teta series

No.	Name	Pin	Description
4	External alarm		Binary inputs
		D1	External alarm input 1
		D2	External alarm input 2
		COM	Common terminal
5	PK1 – PK6		Relays output
		COM	Common terminal of relay
		NO	Normally open contact of relay
		NC	Normally close contact of relay

Dimension



Technical specification

Power supply <ul style="list-style-type: none"> Voltage V_{cc} Power 	15 – 50 V $\ddot{=}$ 2,5 W	Digital communication parameters <ul style="list-style-type: none"> TETA BUS port <ul style="list-style-type: none"> Communication protocol GTW port <ul style="list-style-type: none"> Electric standard Communication protocol 	Teta Bus RS - 485 Modbus ASCII / RTU, 4800 – 115200 b/s, no parity / even parity/ odd parity, number of bits 7/8 (only for Modbus ASCII)
Environment <ul style="list-style-type: none"> Ambient temperatures Humidity Pressure pH 	0 – 50 °C 10 – 90% long term 0 – 99% short term 1013 \pm 10% hPa 5,5 – 7	Integrated signalling equipment (visual)	LCD alphanumerical display 2 x 16 LED indicator
IP	IP 20	Integrated signalling equipment (audible)	70 dB 1 m distance
Digital input parameters <ul style="list-style-type: none"> R_{WE} Inactive (not negated) Active (not negated) 	10 k Ω 0 – 1 V 10 – 50 V any polarisation whichever polarization > 1s	Protection class	III
Digital output parameters <ul style="list-style-type: none"> Relay 	Floating contacts, NO/NC AC1: 230 V \sim / 3 A DC1: 230 V $\ddot{=}$ / 0,25 A DC2: 24 V $\ddot{=}$ / 3A Not protected against overloading	Cable glands (cable diameter range)	1 – 2 mm ² (cable lugs 2 x 1 mm ² or 2 x 0.75 mm ² should be used for double wires)
		Enclosure material	Self – extinguishing PPO
		Weight	0,4 kg
		Mounting	On DIN-35 / TS35

Product marking

Product code	Device
PW-108-A	Control Unit Module Teta MOD Control 1



→ Detailed connection diagrams in the editing format



Atest Gaz A. M. Pachole sp. j.
ul. Spokojna 3, 44-109 Gliwice

tel.: +48 32 238 87 94
fax: +48 32 234 92 71
e-mail: contact@atestgaz.pl

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