

Control Unit Module

Alpa MOD LED1

Product code: PW-023-A



Reliability



Integrity



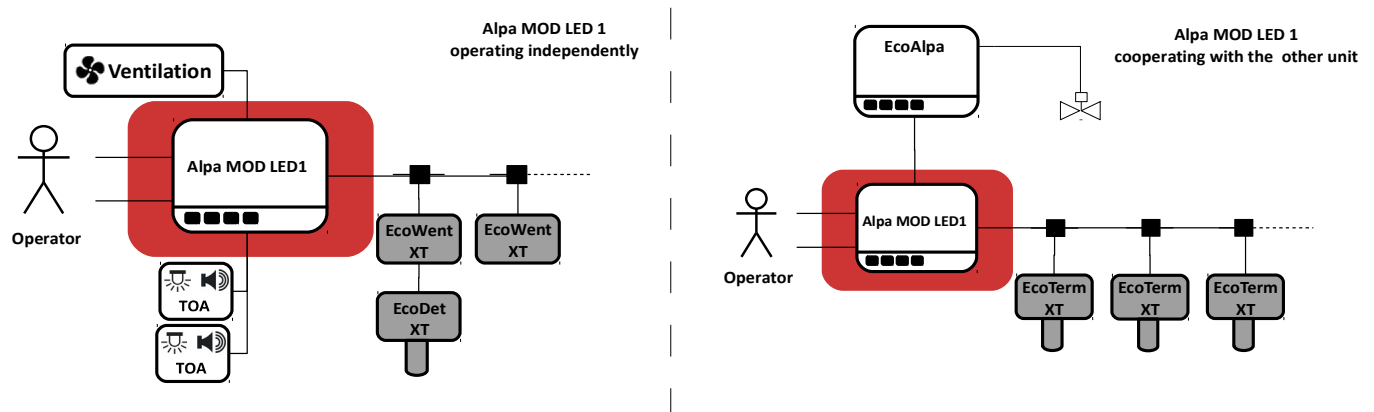
Information about the product

The Control Unit module **Alpa MOD LED1** is a single-channel control device designed for operation at facilities with a risk of hazardous gases presence, for instance toxic gases (CO, NO_x), flammable gases (CH₄, LPG) or any other gases that can be monitored by means of appropriate detectors. The complete system is made up of measuring (threshold) detectors, a power adapter, audible and visual signal towers (stacklights), additional warning boards to produce audible and visual warning and alarm signals as well as a control unit.

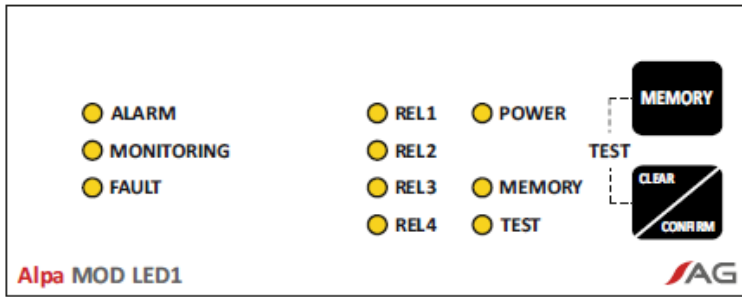
Alpa MOD LED1 is responsible for the following issues:

- Power supply of gas detectors,
- readout of signals in the 4...20 mA standard,
- signalling of exceeding warning thresholds, alarms,
- signalling of detectors damage (also breaking the wire),
- control of additional devices by means of relays,
- control of signalling devices.

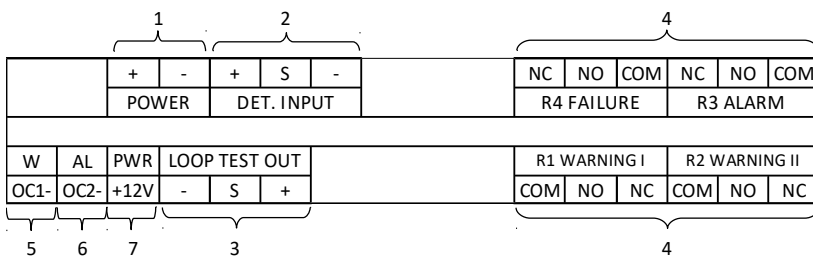
Location and role of the device in Gas Safety System



User interface



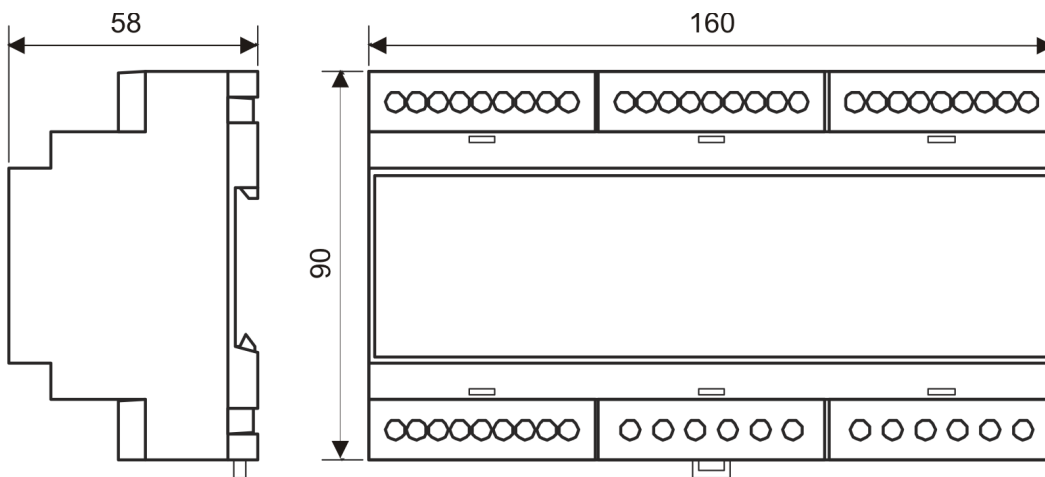
Electrical interface



No.	Name	Pin	Description
1	Power		Power supply port
		-	Negative
		+	Positive
2	Det. Input		Gas detector port
		+	Positive
		S	Signal input
		-	Negative
3	Loop test out		Test port
		+	Positive
		S	Signal input
		-	Negative

No.	Name	Pin	Description
4	R1 – R4		Relay output
		COM	Common
		NO	Normally open
		NC	Normally close
5	W	OC1-	Output – Alarm
6	AL	OC2-	Output – Alarm
7	PWR	+12V	Signaller supply common signal

Dimension



Technical specification

Power supply	12 – 28 V $\overline{\text{---}}$ 5 W	
• Voltage V_{CC}		
• Power		
Number of input channels:	1	
Environment	In operation	Storage
• Ambient temperatures	-20 – 40°C	0 – 40°C
• Humidity	10 – 90% long term	30 – 90% long term
• Pressure	0 – 99% short term	
• pH	1013 \pm 10% hPa	
	5.5 – 7	
IP	IP20	
Analogue input parameters		
• R_{IN}	200 Ω	
Analogue output parameters		
• R_{LOAD_MAX}	200 Ω	
Digital output parameters		
• Relay	Floating contacts: AC1: 230 V \sim / 3 A DC1: 230 V $\overline{\text{---}}$ / 0.25 A DC1: 24 V $\overline{\text{---}}$ / 3 A Not protected 12 V $\overline{\text{---}}$, maximum total load of outputs 300 mA Common + Not protected	
• OC		
Integrated signalling equipment (visual)	LED controls	
Integrated signalling equipment (optical)	75 dB, 1 m distance	
Acceptable cables	1 – 2 mm ²	
Enclosure material	Self-extinguishing PPO	
Weight	0.3 kg	
Mounting	On DIN-35 / TS35	

Device configurations

Product code	Device	Description
PW-023-A	Alpa MOD LED1 Control Unit Module	Alpa MOD LED1 Control Unit Module – mounting on DIN-35 / TS35.
PW-086-LED1-S	Alpa LED1-S Control Unit	Alpa MOD LED1 Control Unit Module built into the switchgear for wall mounting, IP65. Dimension: 235x217x117 mm
PW-086-LED1-S24	Alpa LED1-S24 Control Unit	Alpa MOD LED1 Control Unit Module with power supply 230VAC/24VDC/60W, built into the switchgear for wall mounting, IP65. Dimension: 235x217x117 mm

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