

Control Unit Module

Alpa MOD LED8

Product code: PW-003-A



Reliability



Integrity

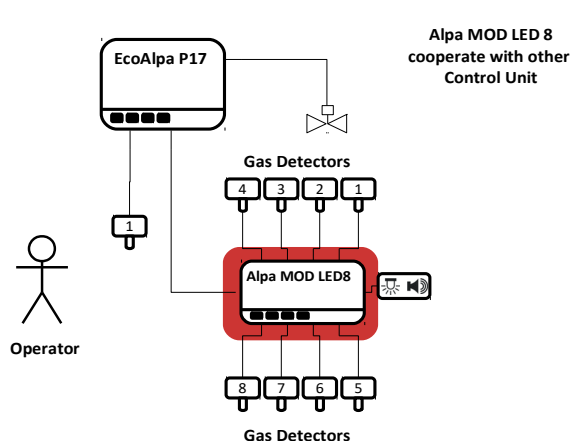
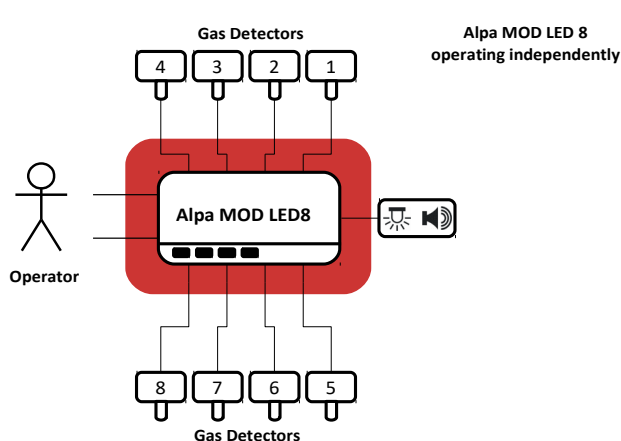


Information about the product

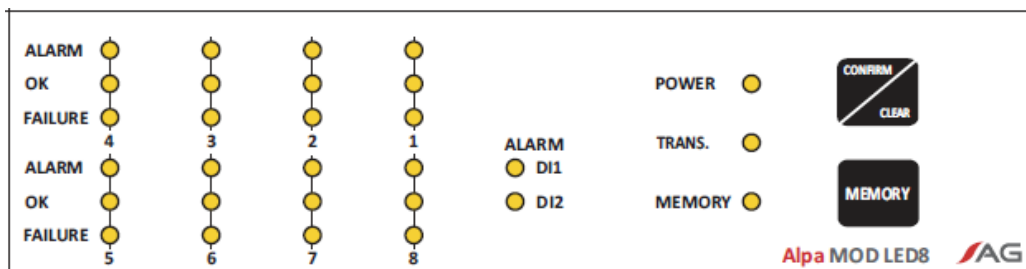
The Alpa LED8 MOD Control Unit Module is a device designed to read the signals in 4 – 20 mA standard, reads signals exceeding the warning alarm thresholds, indicates gas detectors damage (e. g., breaking a wire) and works with optical – acoustic signaller. This control unit module can cooperate with up to 8 detectors. System with this device can work in:

- residential buildings,
- public utility buildings,
- structures serving operation and distribution of gas and media,
- sewage treatment plants and other industrial facilities

Location and role of the device in Gas Safety System



User interface

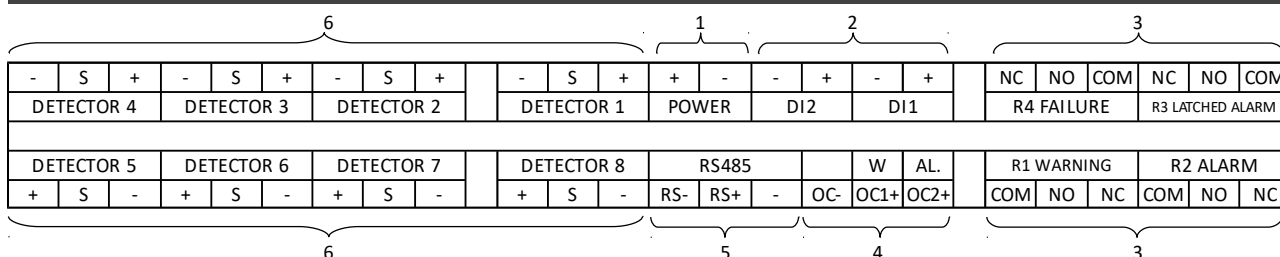


Information for service is presented using LED controls. The Control Unit Module during its operation continuously controls the readings of detectors which are responsible for measuring the gas concentration in the environment, additionally it performs systematic tests of the efficiency of measuring heads. Depending on the result of the above activities, it distinguishes the following states:

- OK – device work properly
- WARNING – a small gas leak
- ALARM – a critically high leak
- FAILURE – system or gas detector damage has been detected

After the end of the danger state or failure, the flashing MEMORY indicator will appear on the display, signalling the history of events stored in the memory (which can be deleted).

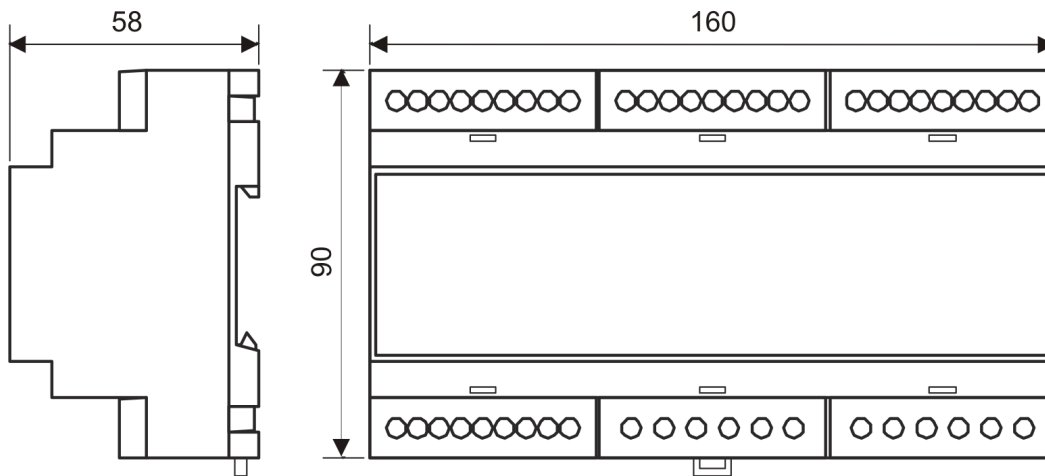
Electrical interface



No.	Name	Pin	Description
1	Supply		Device supply port
		+	Positive supply pole
		-	Negative supply pole
2	DI1 – 2		Digital inputs
		+	Positive digital input terminal
		-	Negative digital input terminal
3	R1 – R4		Relay outputs
		COM	Common terminal of relay
		NO	Normally open contact of relay
		NC	Normally closed contact of relay

No.	Name	Pin	Description
4	Output OC		OC voltage outputs
		OC-	Negative common terminal OC outputs
		OC1+	Positive OC1 output terminal
		OC2+	Positive OC2 output terminal
5	RS485		RS 485 input
		RS-	Signal line RS-
		RS+	Signal line RS+
		-	Signal ground
6	1 – 8 Gas Detectors		Gas detectors current input
		+	Gas detectors positive supply pole
		S	Gas detectors signal terminal
		-	Gas detectors negative supply pole

Dimension



Technical specification

Power supply <ul style="list-style-type: none"> Voltage Vcc Power 	10 – 30 V ~ 3 W	
Environment <ul style="list-style-type: none"> Ambient temperatures Humidity 	In operation	Storage
	0 – 40 °C 10 – 90% long term 0 – 99% short term	0 – 40 °C 30 – 90% long term
IP	IP20	
Number of analogue inputs	1 – 8	
Analogue inputs parameters <ul style="list-style-type: none"> R_{IN} 	200 Ω	
Digital input parameters <ul style="list-style-type: none"> R_{IN} Inactive Active 	10 kΩ 0 – 1 V 10 – 30 V Any polarisation Impulse duration which is needed to change the state > 1s	
Analogue output parameters <ul style="list-style-type: none"> Relay OC voltage outputs 	Floating contacts, NO/NC 230 V ~ / 3 A 230 V ~ / 0.25 A Not protected against overloading Output voltage equal to the supply voltage of Alpha MOD LED8 Maximum total load on outputs 500 mA Not protected against overloading	
Built-in optical signalling	LED lights	
Built-in acoustic signalling	75 dB at the distance of 1 m	
Protection class	II	
Acceptable cables	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	0,3 kg	
Mounting	On DIN-35 / TS35 rail	

Product marking

Product code	Device
PW-033-A	Control Unit Module Alpha MOD LED8



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