

Gas Detector

Alpa EcoTerm XT

Product code: PW-100-NG



Reliability



Cost efficiency



5 year warranty

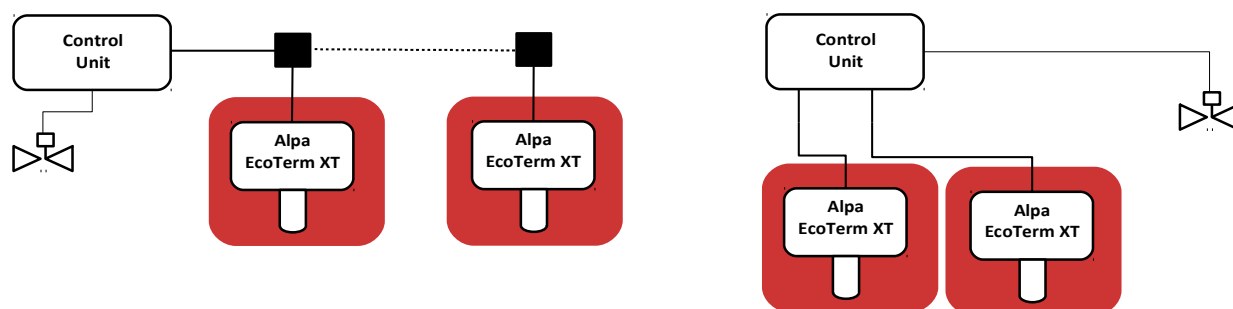


Information about the product

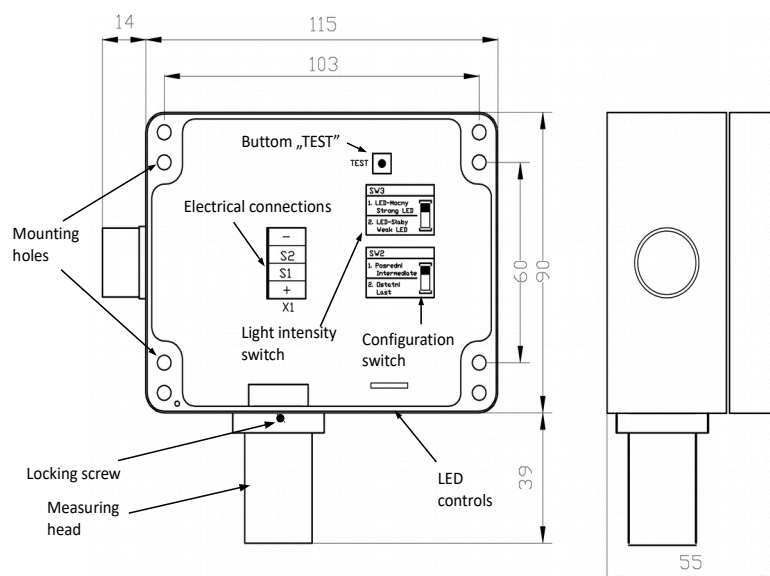
The Alpa EcoTerm XT Gas Detector is an advanced and versatile device designed for detection of methane concentration in public access facilities, such as boiler houses and industrial halls. Presence of the hazardous gas is revealed by means of a catalytic sensor, which guarantees reliable operation of the device without false alarms and, in consequence, smooth operation of the gas detection system deployed on the monitored facilities. The detectors are immune to humidity, variations of ambient temperature and presence of other gases. The device measures concentration of methane within established time intervals and information about exceeding of permissible thresholds it provided to the system operator when the high-power LED indicator provided in the bottom part of the device is on. Such a solutions enables reliable identification of the detector status from the distance even up to several meters. The communication between the detector and the master Control Unit is provided by the 4 – 20 mA output signal.

The Alpa EcoTerm XT Gas Detector is not designed for installation in areas with potentially explosive atmospheres.

Location and role of the device in Gas Safety System



Electrical interface and dimension



Name	Pin	Description
X1		Gas detector /T-connector XT / control unit port.
	GND	Negative
	+	Signal line S2
	GND	Signal line S1
	+	Positive

Technical specification

Power supply	10 – 42 V $\ddot{\sim}$ 160 mA	
Environment	In operation	Storage
• Ambient temperatures	-20 – 40 °C	-20 – 40 °C
• Humidity	10 – 90% long term 0 – 99% short term 1013 ± 10% hPa	20 – 80% long term
Measured substance	Methane (CH ₄)	
Measuring range	50% LEL	
Standard configuration	10% LEL 15% LEL 20% LEL	
• warning 1		
• warning 2		
• alarm		
IP	IP 43	
Analogue input parameters	200 Ω	
• R _{IN}		
Analogue output parameters	200 Ω	
• R _{LOAD_MAX}		

1. When working in residential buildings, public utilities, car parks and garages

The output signal according to the gas detector status:	
• failure	2.4 mA
• operation	4 mA
• warning 1	9 mA
• warning 2	11 mA
• alarm	15 mA
Integrated signalling equipment (visual)	LED controls
Protection class	III
Cable glands (cable diameter range)	Gland pressed into the installation pipe – diameter of the pipe 16 mm. Glands multiband – diameter of wire 3.5 – 12 mm
Acceptable cables	0.25 – 1.5 mm ² – wire cores 0.25 – 1 mm ² – multi-wire cable
Enclosure material	ABS
Weight	0.3 kg
Mandatory periodic inspection	Every 12 months (Calibration Certificate validity)
Lifetime of consumables	Measurement head MiniPel PWS-016-NG - 5 years ¹
Mounting	4 holes for screw diameter 4 mm

Product marking

Product code	Device
PW-100-NG	Gas Detector Alpha EcoTerm XT

Legal Notice:

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