

Gas Detector

Teta EcoH

Product code: PW-123-H2



Innovations



Reliability



Cost efficiency



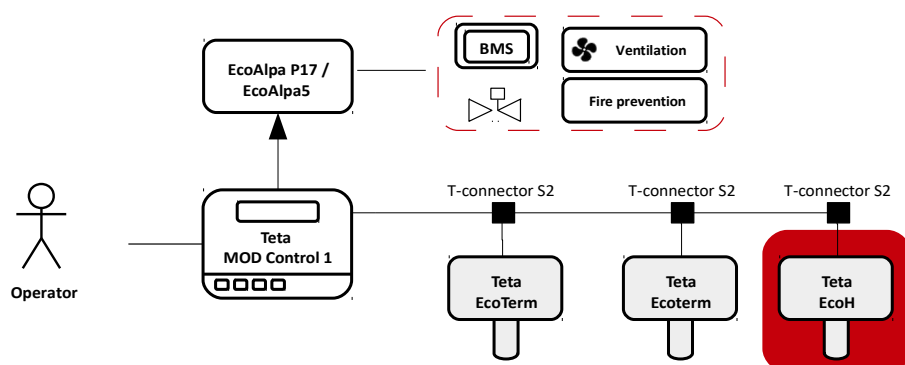
Information about the product

Teta EcoH gas detectors are monitoring devices designed to check hydrogen concentration in open-access confined spaces (e.g. battery rooms) and meant as components of the innovative system for gas detection – Teta Gas.

Key advantages of detector:

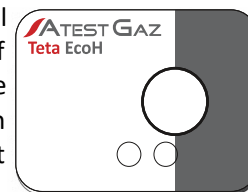
- power supply and data transmission via a single, two-wired cable,
- insensitive to polarization of the connection,
- simple and clear method for scanning and identification of detector addresses
- signal LED in the bottom part of the detector enclosure enables easy identification of the sensor status
- 3 levels of warnings and alarms
- built-in catalytic sensor insensitive to changes of ambient conditions

Location and role of the device in Gas Safety System



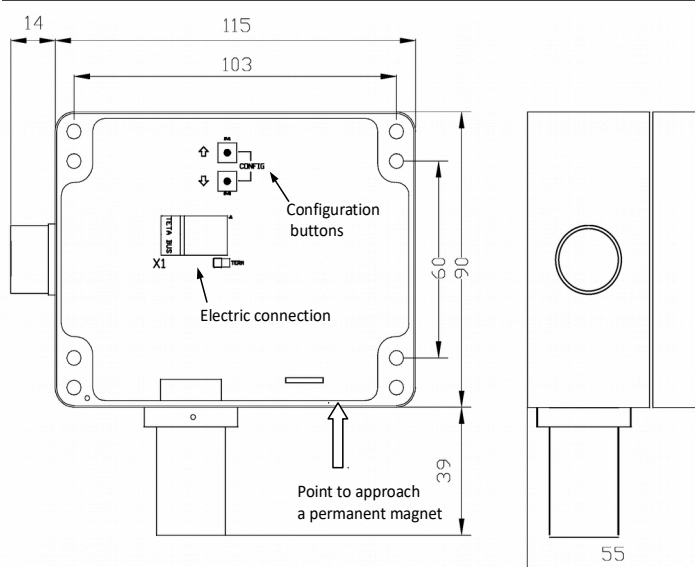
User interface

Teta EcoH detectors can indicate their operation status. It is accomplished by means of a signal LED visible in the bottom part of the detector enclosure. The LED can operate with two levels of light intensity to indicate correct operation of the device. The exceptional functionality of the detector consists in its ability to easily disclose its address within the gas detection network with no need to open its enclosure – it is enough to approach a permanent magnet to a specific point of the enclosure.



The detailed description of the detector operation is provided in the respective User Manual

Electrical interface and dimension



Port designation	Name	Pin	Description
X1	TETEA BUS		Teta Bus port
			Supply / Signal line
			Supply / Signal line

Technical specification

Power supply	12 – 50 V $\overline{\text{---}}$ 1.8 W	
Environment	In-operation	Storage
Ambient temperatures	-20 – 50 °C	0 – 50 °C
Humidity	10 – 90% long term, 0 – 99% short term	30 – 90% long term
Pressure	1013 ± 10% hPa	
Measure substance	Hydrogen (H ₂)	
Measure range	50% DGW	
IP	IP 43	
Digital communication parameters	Teta BUS	
Communication port		
Integrated signalling equipment (visual)	LED indicators 7-segment type display LED	
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	0.2 – 2.5 mm ² – solid wire 0.2 – 2.5 mm ² – multi-wire cable	
Enclosure material	ABS	
Weight	0.3 kg	
Mandatory periodic inspection	Every 12 months (Calibration Certificate validity)	
Mounting	4 screw holes 4 mm	

Product marking

Product code	Device
PW-123-NG	Gas Detector Teta EcoH

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