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CTLG-08

Carbon monoxide and gas detector

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The CTLG-08 detector is designed to detect the presence of carbon monoxide (Chad: CO) and natural gas (methane: CH4) in enclosed spaces.

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DESCRIPTION

Purpose

The detector enables precise measurement of carbon monoxide and methane concentrations in the surrounding air. At the moment of detecting concentrations dangerous to health or posing a threat of explosion, the detector generates an acoustic and visual alarm.

The CTLG-08 detector is not designed to detect smoke and gases other than natural gas (methane CH4).

The detector's advanced electronic design guarantees high operational reliability and low power consumption, which translates into many years of operation.

The detector's mechanical design protects against tampering. The high quality of the product is certified by the EN 50291-1:2018+AC:2021-01, EN 50194-1:2009 compliance certificate.

Operation

Commissioning

The detector commissioning procedure starts when the power is switched on and consists of preheating the sensors in order to achieve high measurement accuracy.

This process takes 3 minutes and is signalled by:

- a single beep;
- then the LED display shows the time (from 180 to 0) until sensor preheating is complete and a flashing green indicator;
- when the timer has finished, the green indicator lights up, the display shows the value "0".

Trial test

After starting the detector, it is recommended to check the correct operation by pressing the "TEST" button. If the red and green indicators flash alternately and the beep sounds 4 times, the detector is functioning correctly. If not, contact service.

To fully verify that the detector is functioning correctly, a calibration test gas must be applied in the vicinity of the detector. The use of other solutions, such as gas from an unlit cigarette lighter, will not give reliable results.

Monitoring

The detector's operation (monitoring of carbon monoxide and gas concentration levels) is indicated by a permanently switched-on green power indicator. During normal operation, the display should show 0.

Alarm

Dangerous Carbon Monoxide (Chad) Concentration If a dangerous level of carbon monoxide is detected, an alarm consisting of:

- 4 times beeping, repeated every 2 seconds;
- a red alarm indicator will flash 4 times, repeated every 2 seconds;
- the display will show the measured value of the carbon monoxide concentration with the ppm unit.

If an alarm is reported for exceeding the carbon monoxide concentration limit, it is mandatory to open the windows for ventilation, leave the room immediately and notify the relevant services. Only silence the alarm when you are sure it is safe!

Dangerous concentration of gas (methane)

If a dangerous concentration of gas in the air is detected, an alarm will sound:

- 2-fold audible signal, repeated every 1 s;
- a red indicator flashing 2 times, also repeated every 1 s;
- the measured gas monoxide concentration value and the symbol "...% LEL" will be displayed on the screen.

A gas concentration exceedance alarm will be reported when the gas concentration exceeds 8.0% LEL.

If the dangerous gas concentration is exceeded, you must:

- extinguish all open flames, including cigarettes, candles, etc.
- close all valves of the gas installation (gas cooker taps, water heater, valves on the tank or gas supply);
- do not switch on or off any electrical equipment, including gas detection equipment;

- open doors and windows to increase ventilation.

If the alarm continues to operate and the cause of the leak is not apparent and/or cannot be repaired, leave the room and IMMEDIATELY NOTIFY the gas supplier and/or 24-hour gas emergency service so that the installation can be tested, protected and repaired!

Do not use the telephone in a building where gas is suspected to be present!

Natural gas (city gas) and liquefied petroleum gas (LPG) are enriched with special odorisers. The concentration of the odorant is selected in such a way that it is perceptible even at the smallest leak. The absence of a detector alarm when odorant is perceptible does not indicate a malfunction, but rather a low concentration of the dangerous gas.

If the alarm is successfully cancelled and the cause of the alarm is identified (e.g. an open gas tap with a non-burning burner), the gas supply can be restored after stopping the gas leak and ensuring that all appliances are switched off.

TECHNICAL DATA

Loudness	85 dB
Height/depth	39 mm
Diameter	0 mm
Width	82 mm
Length	136 mm
Explosion-tested version	Nie
Loudness	0 dB(A)
With backup battery	Tak
With voltage indication	Tak
Rated switch current	0 A
Number of contacts as change-over contact	0
Number of contacts as normally open contact	0
Number of contacts as normally closed contact	0
Supply voltage AC 50 Hz	100-240 V
Networkable via radio (optional)	Nie
Networkable via radiografic (standard)	Nie
Networkable via cable	Nie
Standalone	Tak
Detect toxic gas	Tak
Detect flammable gas	Tak
Detect explosive gas	Tak
Detect methane (CH4)	Tak
Detect carbon monoxide (CO)	Tak
Degree of protection (IP)	IP40
Colour	White
Type of messaging	Optical/acoustic
Voltage type (operating voltage)	AC
Voltage type (supply voltage)	AC
Mounting method	Other
Detect ammonia (NH3)	Nie
Detect butane (C4H10)	Nie
Detect domestic gas	Nie
Detects carbon dioxide (CO2)	Nie
Detect anaesthetic gas	Nie
Detect propane (C3H8)	Nie
Detect irritant gas	Nie
Supply voltage DC	3-3 V

Manual

CE declaration

Certificate

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