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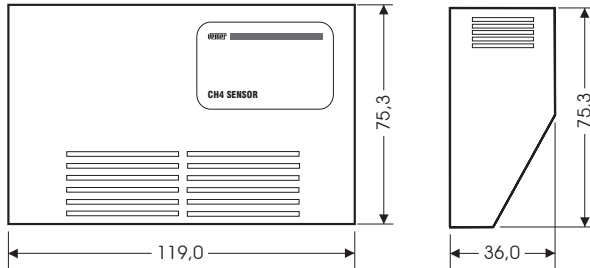
I - 32032 Feltre (BL) • Via Camp Lonc, 16
Tel +39 0439 80638 • Fax +39 0439 80619

e-mail: info@vemer.it - web site: www.vemer.it

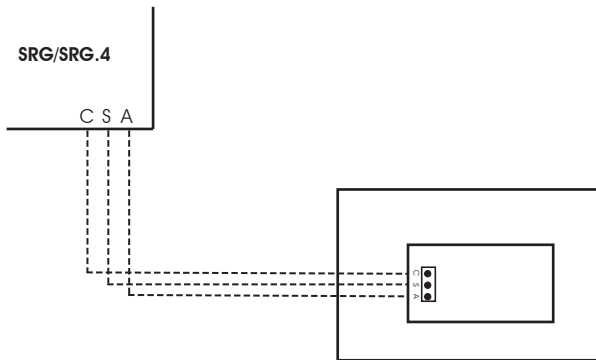
Mod. **CH₄ SENSOR**
Mod. **LPG SENSOR**
Mod. **CO SENSOR**



Dimensions



Connection diagrams



User Manual

SENSORS FOR SRG/SRG.4 CONTROL UNITS

Read all the instructions carefully

- **CH₄ Sensor, CO Sensor and LPG Sensor** are probes for the detection of methane gas, carbon monoxide and LPG to be connected to **SRG** and **SRG.4** control units to create systems for detecting gas in areas such as boiler rooms, warehouses, etc.
It is wall-mounted in a vertical position using screws and plastic plugs.

SAFETY WARNINGS

During installation and operation of the instrument, comply with the following instructions:

- 1) *The device must be installed by a competent person*
- 2) *Before removing the cover, make sure that power is NOT provided to the device*
- 3) *Before accessing the terminals, make sure that the electrical leads are not live*
- 4) *Install the detector in the correct position (see "Installation")*
- 5) *Do not power on the device if any part of it is damaged*

Code	Model	Description
VE205100	CH ₄ SENSOR	Methane detection sensor
VE206900	LPG SENSOR	LPG sensor
VE207700	CO SENSOR	Carbon monoxide sensor

TECHNICAL CHARACTERISTICS

- Power supply: from the control unit SRG or SRG.4
 - Current input (at 6.5V): 40mA
 - Connection: terminals of 2.5mm² C (common), S (signal), A (power supply)
- Models and calibration:
 - Methane gas: CH₄ Sensor, (default) 10% LIE of methane
 - LPG: LPG Sensor, (default) 12% LIE of isobutene
 - Carbon monoxide: CO Sensor, (default) 200ppm of carbon monoxide
- Max. length of connection: 50 m
- Container: in self-extinguishing plastic material
- Fastened to wall using screws and plastic plugs
- Protection: IP30
- Operating temperature: 0 ÷ +50°C
- Humidity: ≤90% R.H. without condensation

INSTALLATION

LPG, CO and CH₄ Sensors are designed to be wall-mounted (vertically), using screws and plastic plugs. To proceed with installation, open the container by unscrewing the screw located on the lower side. Make sure not to damage the sensor and not to touch the calibration devices.

POSITIONING

The correct installation of the probe is essential to proper operation of the system. Therefore, it must be installed:

- In areas with circulation of natural air;
 - In areas that are not subject to dust or dirt that may render the sensor inoperative;
 - Near jets of water, intake grilles, openings, etc.
 - At an adequate distance from users of gas so as to prevent the system from intervening improperly due to functional leakage.
- Also, positioning depends on the type of gas to be detected, specifically:
- **CH₄ Sensor: Methane gas – at top, about 20-30 cm from the ceiling**
 - **LPG Sensor: LPG – at bottom, about 20-30 cm from the floor**
 - **CO Sensor: carbon monoxide – about 1.5 m from the floor**

For new systems, the probe must be installed as late as possible, so that typical construction site activities do not damage the detector.

CONNECTIONS

Normal electrical cables can be used for connections. In any case, when installation is in places that are strongly exposed to electromagnetic disturbances, it is advisable to use shielded cables. The detection system must always be in operation. Therefore, the electrical power supply of the detector must not include switches or other devices that may accidentally shut it off. The average lifespan of the probes is 5 years from the date of installation. Therefore, at the end of that time they will need to be replaced.

Note. Make sure you check operation at least once a year, and in any case whenever there is an extended period of disuse or in the event of replacement. Any tampering may compromise correct operation of the system.

REFERENCE STANDARDS

Compliance with Community Directives:

2006/95/EC (low voltage)

89/336/EEC mod. from **92/31/EEC** and from **93/68/EEC** (E.M.C.)

is declared with reference to the following standards:

EN 61779-4, EN 50270