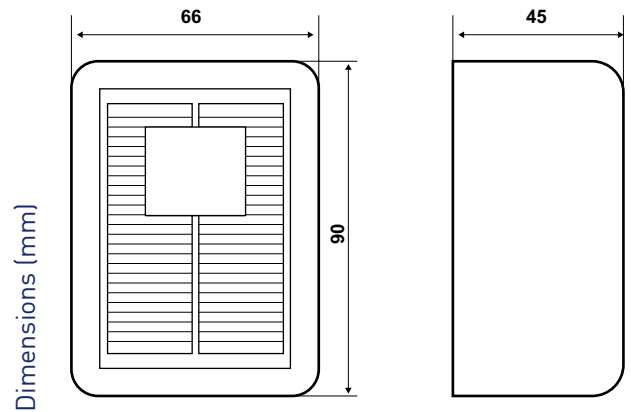


# S81 - S82 - S83

## Gas detection sensors for the control units P81 and P82, 4-20mA

Combustible gas detection sensors to be used with the electronic control units P81 and P82. The sensors are available in 3 versions: S81 for methane gas and city gas, S82 for LPG and S83 for carbon monoxide.



Gas type	Operating ambient temperature °C	Protection degree
S81 methane gas, or other light gases	- 10 ÷ 50	IP44
S82 LPG gas (cylinder liquid gas) or other heavy gases	- 10 ÷ 50	IP44
S83 CO carbon monoxide	- 10 ÷ 50	IP44

## ELECTRICAL CHARACTERISTICS

Power supply from the control units P81 or P82.

Absorption: 40mA (200mA).

3 terminals of 2,5 mm<sup>2</sup> for each sensor: C (-12...24V); S (+4...20mA); A (+12...24V).

## STANDARDS AND APPROVALS

In conformity with Directives/Norms EMC 89/336/CEE, Norm EN 50270.

# INSTALLATION

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Wall mounting by means of screws and plastic anchors.

The correct positioning of the probes is essential for the system proper operation.

For this purpose the probes must be installed:

- in areas where always is required a natural circulation of the air;
- in areas not subjected to dust and dirt that can clog and disable the sensor;
- never near water jets, aspiration grilles, windows, vents, etc.;
- at an adequate distance from gas users to avoid system inappropriate interventions due to possible functional losses.

In addition, the positioning depends of the gas type that must be detected:

- S81: up on the wall, about 20-30 cm from the ceiling;
- S82: down on the wall, about 20-30 cm from the floor;
- S83: about 1,5 m above the floor.

In case of new installations, the sensors must be installed the most lately in order that the typical activity of the building yard (especially welding, painting, sealing, etc.) cannot damage the same detectors (especially their sensing element).

## TECHNICAL FEATURES

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Calibration:

- S81: 10% LEL Methane;
- S82: 12% LEL Isobutane;
- S83: 200ppm CO.

Self-extinguishing plastic enclosure.

Dimensions 66x90x45 mm (according to the model).

Unit weight 0,065 kg.

Protection: IP44.

Environment temperature: 0 ÷ 50 °C (-20 ÷ 50°C).

Environment humidity ±90% U.R. without condensation.