

1 Safety-relevant information

Mounting, installation and commissioning of a TRANSMITTER^{EVO} may only be undertaken by suitably trained personnel.

- Read the relevant instructions before using the product
- Observe the instructions precisely. The user must fully understand the instructions and follow the instructions exactly. The product must only be used in accordance with the intended use.
- Statutory requirements and guidelines that relate to this product must be followed.
The complete instructions for use can be obtained in electronic form on the corresponding product page (www.smartgas.eu) or ordered free of charge in paper form from smartGAS Mikrosensorik GmbH.

1.1 Safety and warning information

Observe the Safety and warning information. The following warning signs are used in this document to indicate the relevant warning text.



NOTE

Information on the use of the product.



CAUTION!

Indicates a potential hazardous situation. If this is not avoided, injuries or damage to the product or environment may occur. This is also a warning against improper use.

2 TRANSMITTER^{EVO} installation

Attaching the transmitter

Mounting aid: Drilling template

Open transmitter → The cover can be removed by opening both hinges.

The transmitter is fastened with a screw type 4 x 25 mm through the housing.

The mounting can also be done with the enclosed wall bracket. This is screwed to the back of the transmitter housing.



CAUTION!

Select the smartGAS transmitter based on the applicable regulations so that the gas escaping in the area to be monitored is detected reliably and in good time by the system. The maximum protective effect is only achieved if the correct mounting location is selected. Free air circulation around the transmitter must not be obstructed. The transmitter should be mounted as close as possible to the potential leakage point. In the case of gases that are heavier than air, the transmitter is to be mounted as close to the ground as possible for monitoring purposes. In the case of gases with a similar density to air, the sensor should be positioned at head height. The local airflow conditions must be taken into account. The mounting location must be selected so that the maximum concentration is detected.



NOTE

The cable should be inserted from below. If the transmitter is mounted vertically, the cable entry can be routed to the side. In this case, remove the filler plug from the side. Unscrew the PG screwed connection and screw it on the side. Reseal the mounting opening of the former PG screwed connection with the blanking plug. Make sure it is sealed tightly.

3 Install electrical connections



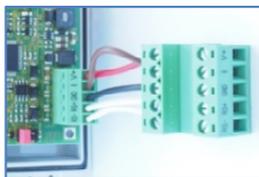
CAUTION!

The installation of electrical cables and the connection of the smartGAS transmitter may only be carried out by trained specialist personnel in compliance with the applicable standards and regulations.

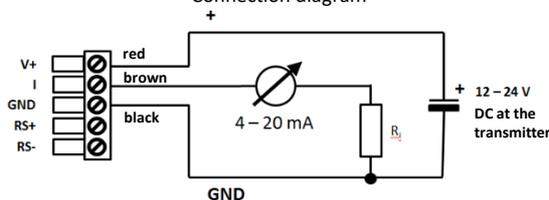
Example:

A three-wire, shielded connection cable is recommended (shielding braid with degree of coverage $\geq 80\%$). The cables must have a single-wire cross-section of 0.5 mm^2 to 1.5 mm^2 . Strands with a maximum cross-section of 1 mm^2 with wire end ferrules, such as LiYCY 3 x 1 mm^2 , can be wired directly to the 5-pin plug on the connection board. Cables with a cross-section up to a maximum of 2.5 mm^2 single-wire or 1.5 mm^2 strand such as LiYCY 3 x 1.5 mm^2 can be connected via the adapter plug supplied.

Adapter plug



Connection diagram



CAUTION!

The clamping range of the PG cable screwed connection is 6–12 mm. If cables with a smaller or larger outside diameter are used, the IP protection is no longer guaranteed!

Double earthing can cause EMC problems. Lay shielding only on one side of the earth potential. We recommend a connection to the PE terminal of the junction box.