

Operating Instructions



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1 General Information

This document contains necessary information for the proper installation and use of this device. In addition to this instruction, be sure to observe all statutory requirements, applicable standards, the additional technical specifications on the accompanying data sheet (see www.labom.com) as well as the specifications indicated on the type plate.

1.1 General Safety Notes

The installation, set up, service or disassembly of this device must only be done by trained, qualified personnel using suitable equipment and authorized to do so.

Ensure that the device is suitable for the process and undamaged.

1.2 Intended Use

The device is suitable for measuring the filling level in wells, storage tank or bodies of water as specified in the data sheet.

1.3 Conformity with EU Regulations

The CE-marking on the device certifies its compliance with the applicable EU Directives for placing products on the market within the European Union.

You find the complete EU Declaration of Conformity (document no. KE_024) at www.labom.com.

1.4 ATEX Approval

Devices of the type CG2011 are certified for use in explosive environments.

If you purchased a device with ATEX approval, please refer to the accompanying document XA_008 for ATEX-relevant information.

2 Transportation and Storage

Store and transport the device only under clean and dry conditions preferably in the original packaging. Avoid exposure to shocks and excessive vibrations.

Permissible storage temperature: -40...85 °C

3 Installation and Commissioning

Ensure that the device is suitable for the intended application with respect to pressure range, overpressure limit, media compatibility, temperature range and process connection.

The submersible transmitter is not suitable for crystallising media.

3.1 Mechanical Installation

Only remove the protective cap or sheath from the diaphragm directly before installation so as to avoid any contamination or damage. The diaphragm must have access to the process media; you should therefore remove all covers from the transmitter.

Do not touch the flush mounted diaphragm with your fingers or other objects. Deformation of the diaphragm can affect the zero point and the measuring properties of the unit.

Submersible transmitters are held by the connecting cable. Do not apply any force on the screwed cable gland of the transmitter. Pay attention to avoid any tension when installing in tanks or containers.

Check that the screwed cable gland for the electrical connection is fixed tightly in place before immersing the transmitter.

Submersible transmitters are ventilated via the connecting cable. Make sure that the connection room for the cable is dry and ventilated. In order to guarantee a safe ventilation you must make sure that the cable to the submersible transmitter is not buckled or damaged at any point.

3.2 Electrical Connection

Complete the mechanical installation before you connect the device electrically.
Set up all electrical connections while the voltage supply is switched off.

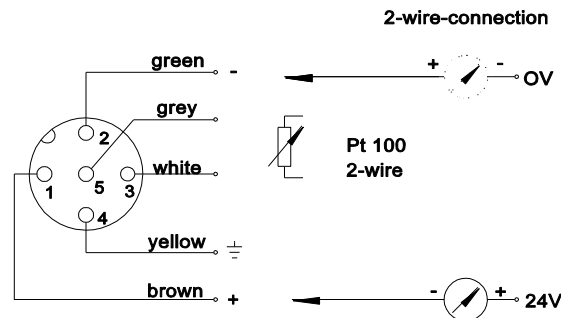


Figure 1: Electrical connection

4 Operation

During operation, take care that the device remains within its intended pressure and temperature ranges. No other monitoring is necessary.

Permissible media temperature: -20...85 °C

Permissible ambient temperature: -20...85 °C

4.1 Maintenance / Service

When properly installed in accordance with applicable specifications, this device is maintenance-free. However, we recommend an annual recalibration of the device.

5 Disassembly

When measuring hot media, make sure that the device has cooled down prior to any dismounting or wear appropriate protective clothing to avoid burns.

Switch off the power supply to the device before disconnecting the electrical connections. Once this is done, the device may be mechanically removed.