

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 intended to measure surface temperatures 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_011) at www.labom.com.

1.4 ATEX Approval

Devices of the type GA2651 are certified for use in explosive environments.

If you purchased a device with ATEX approval, please refer to the accompanying document XA_001 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...100 °C

When supplied with a transmitter the max. permissible storage temperature is reduced to 85 °C.

3 Installation and Commissioning

Before assembling the unit, check that the device is suitable with regard to the media and ambient temperature.

The device is simple to assemble with a push-on or welded socket. Avoid uneven surfaces on the container or on the piping for positioning of the device's push-on or welded socket.

3.1 Electrical Connection

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

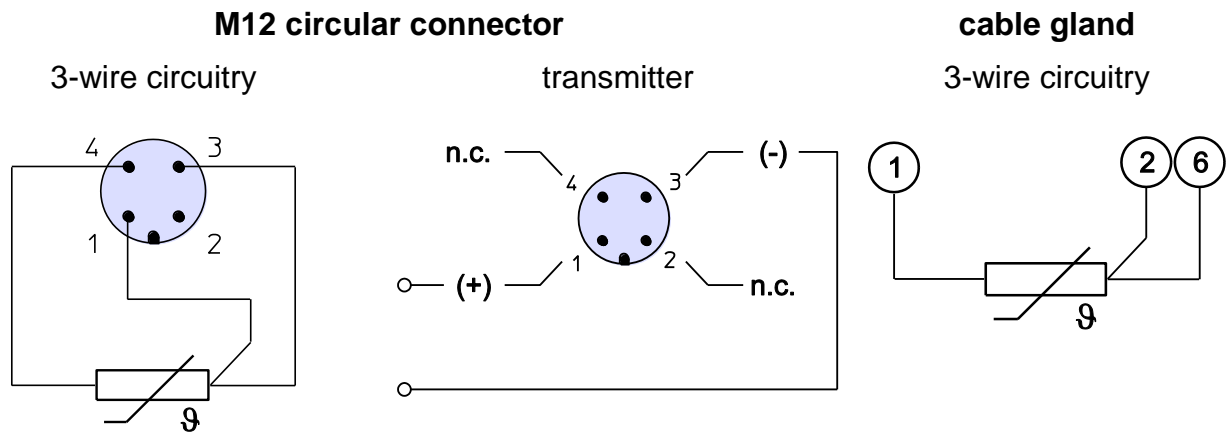


Figure 1: Variants of electrical connection

Route the cable so that it does not apply force or torque to the measuring insert.
For devices with field housing, hold the housing with the other hand when you screw or unscrew the field housing cap.

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: -40...150 °C

Permissible ambient temperature: -40...100 °C

When supplied with a transmitter, the permissible ambient temperature is reduced to 85°C.

Restricted ambient conditions may apply in explosion protected environments (see XA_001).

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.