

# 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](http://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 the measurement of ambient temperatures, however it is essential to ensure that the device is operated only within the temperature limits stated on the type plate.

### 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](http://www.labom.com).

### 1.4 ATEX Approval

Devices of the type GA8101 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...80 °C

## 3 Installation and Commissioning

The device is adapted to a certain pipe diameter as specified in the order. Before installing the device, be sure that the device is suitable for the intended process application with respect to pipe diameter, ambient and medium temperature.

### 3.1 Mechanical Installation

Fix the unit to a flat surface with two M4 bolts.

Please refer to the diagram in Figure 1 for the drilling template.

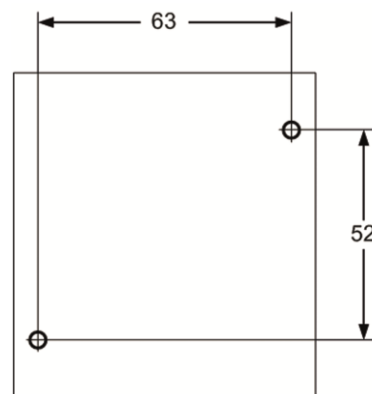


Figure 1: Drilling template

### 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.

The terminal assignment is given in Figure 2 for applications with a clamp base. Refer to the specific instructions for the terminal assignment when using a transmitter.

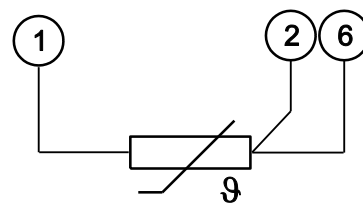


Figure 2: Terminal assignment for clamp base

## 4 Operation

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

Permissible ambient temperature: -40...80 °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.

In the event of a device malfunction, you can only replace the complete measuring insert resp. the clamping element.

## 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.