

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 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.



Warning

Media can escape if unsuitable devices are used or if the installation is not correct.

Danger of severe injury or damage

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

If you have purchased a device with EX or SIL approval, please refer to the enclosed EX or SIL instructions for the relevant data and information. These documents are also available on our homepage www.labom.com.

1.2 Intended use

The device is intended to measure temperature in technical processes as specified in the data sheet.

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.

3 Installation / Commissioning

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

After the mechanical installation and electrical connection is completed, the device is ready for operation as soon as the power supply is switched on.

3.1 Mechanical installation

Use gaskets that are suitable for the process connection and resistant to the media.

Before starting operation, check the process connection carefully for leaks under pressure.

The process connection determines the permissible process pressure.

Run the Pt100 measuring insert through the associated compression fitting.

The fitting have to be tightened with a torque of 4...5 Nm.

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.

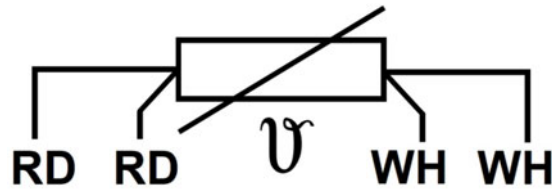


Figure 1: Electrical connection

Assignment of the Pt100 connection lines to the terminal socket strip in the associated case:

Pt100	RD	RD	WH	WH
Pt100 1	1	2	3	4
Pt100 2	5	6	7	8
Pt100 3 (optional)	9	10	11	12

4 Operation

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

Restricted ambient conditions may apply in explosion protected environments (see enclosed EX instructions).

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 measuring insert respectively the head transmitter.

5 Disassembly

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



Warning

Parts in contact with the process take on the temperature of the medium and can still be hot shortly after removal from the process.

Danger of burns

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



Warning

Opening pressurised lines might cause severe injuries.

Danger of severe injuries or damage

- Relieve the process pressure before attempting to remove the device. Shut off the pressure supply for all feed lines to the device and relieve the pressure in them.



Warning

Hazardous deposits and residues might remain on opened process connections and removed devices.

Danger of injury

- After the device has been removed, seal off the measuring point and mark the open process connection accordingly. Consider a possible danger due to residues when handling the removed device.