

Customer Information

Pressure Equipment Directive 97/23/EC (PED)

The PED is a standardisation of the single national laws of all European Member States. It deals with the requirements which pressure gauges must satisfy when placed on the market. As from 30 May 2002 all pressure gauges placed on the market must satisfy this Pressure Equipment Directive 97/23/EC.

Also LABOM pressure gauges as well as temperature measuring instruments are partially mentioned in the PED as "pressure accessories" respectively as "safety accessories" and must satisfy the directive's requirements.

What is a pressure accessory and which devices are concerned?

- As per PED pressure accessories are devices with an operational function and with a pressure bearing housing.
Concerned are: bourdon tube pressure gauges, diaphragm gauges, capsular gauges, inline diaphragm seals, gas expansion thermometers, pressure sensors with internal membrane.

Why are not all other devices concerned by PED?

- Either the maximum allowable pressure (PS) amounts to < 0.5 bar or the devices do not have a pressure bearing volume on their own (internal pressure) and thus are not "pressure accessories" according to the directive (also see NAMUR/ZVEI Recommendations NE80, Annex 1).
Concerned are: thermowells, temperature detecting elements, flush mounted diaphragm seal systems.

Classification of the LABOM measuring instruments as per PED 97/23/EC

The above mentioned devices are classified into the categories I-IV depending on the possible inherent risk. Depending on the possible inherent risk a stricter quality assurance must be executed for the device concerned. This happens - in accordance with the directive - by test modules which keep to the categories.

Measuring devices with a measuring range (PS) of >0.5 bar and <200 bar respectively with nominal diameter $< DN25$ are not classified into a category, but are in accordance with "sound engineering practice" as per item 3 paragraph 3 (minor possible inherent risk only).

Which test modules does LABOM use?

LABOM can present a **certified quality system as per Pressure Equipment Directive** (test module H). With this test module H all quality assuring steps of categories I-III are complied with.

At category IV (safety accessories) an EC type examination certificate is issued by notified bodies in addition.

Marking of LABOM measuring instruments

In accordance with the directive, devices which are classified into a category will be provided with a CE mark, whereby from category II on the number of the notified body will be mentioned as well. In addition the category as well as the fluid group (**1G** = hazardous, gaseous) as per conformity assessment is stated.

Devices as per item 3 paragraph 3 (complying with "the sound engineering practice") must not receive a CE mark.

The verification of the quality management as per ISO 9000 and Pressure Equipment Directive 97/23/EG is executed at LABOM by „notified body TÜV NORD.