



## **KOMBIBAR SINGLE MEASUREMENT – DOUBLE BENEFIT**

Process industry  
Mechanical and plant engineering  
Energy and environmental technology

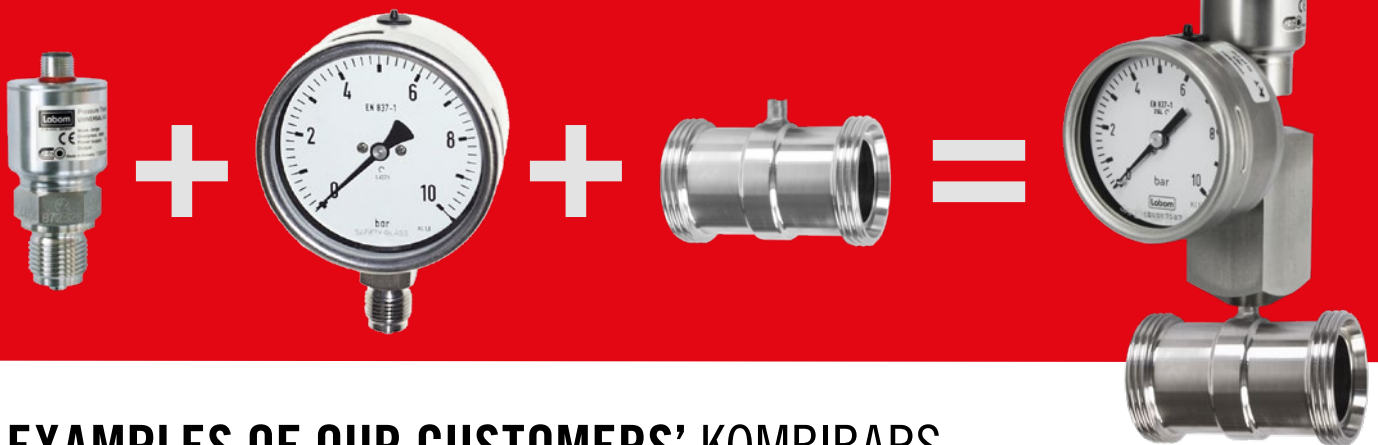
# KOMBIBAR SINGLE MEASUREMENT – D

LABOM develops customised solutions for individual measuring tasks. One highlight is the system known as Kombibar. Two different measuring systems are installed **at a single measuring point** in this system:

**The mechanical pressure measuring device** provides a continuous, easy to read on-site display independent of the power supply.

**The electronic pressure transmitter** with suitable diaphragm seal transmits highly precise electronic values

to the system's control unit. Legally required fail safe performance can easily be achieved with Kombibar devices. The measurement guarantees the simultaneous display of both measuring systems via a single process connection.



## EXAMPLES OF OUR CUSTOMERS' KOMBIBARS

### Food industry



Mechanical pressure measuring device  
+ COMPACT pressure transmitter  
+ Inline diaphragm seal

- Three functions in a single device: electronic measurement, mechanical display and switch contact
- Hygiene-based design
- Process connection is dead zone-free and piggable

### Dairies



Mechanical pressure measuring device  
+ UNIVERSAL CA pressure transmitter  
+ Sanitary connection

- Diaphragm seal suitable for hygienic use in dairies
- Surface quality complies with hygienic designs
- Simple to clean in CIP and SIP applications

### Gas and oil production stations



Mechanical pressure measuring device with switch contact  
+ PASCAL CV pressure transmitter  
+ Universal diaphragm seal for high pressures

- Sturdy design for extreme ambient conditions
- High level of moisture protection
- Explosion protection for gases and dusts and SIL2 classification
- Material certificate in accordance with EN 10204-3.1

# DOUBLE BENEFIT

The combination options of process connection and measuring device are extremely diverse and varied: almost every modification can essentially be provided.

If required, even additional functions can be added. Thus, numerous mechanical pressure measuring devices have a switch contact, which ensures a safe shut-down when a defined upper pressure limit is exceeded.

We'd be glad to advise you!

## BENEFITS

- Only one process connection for simultaneous mechanical and electronic measurement
- Safe read-off even without a power supply (e.g. in the event of a malfunction)
- Suitable for portable vessels
- Mechanical on-site display
- Independent electronic measurement delivers highly precise data
- Explosion protection for gases and dust
- SIL2 classification
- High overload protection
- Meets the requirements of the Ordinance on Industrial Health and Safety

### Chemical industry



Mechanical pressure measuring device  
+ PASCAL Ci4 pressure transmitter  
+ Flange diaphragm seal

- Suitable for use in chemical applications
- NAMUR-compliant (tested to NE 95)
- Special materials and special coatings are possible
- High level of moisture protection

### Paint shops (automotive industry)



Mechanical pressure measuring device  
+ UNIVERSAL pressure transmitter  
+ Inline diaphragm seal

- Process pressure is monitored and circulation process is controlled
- Inline diaphragm seal is self-draining and piggable, thanks to its special design
- Pressure transmission fluid in the diaphragm seal system is absolutely silicone-free

### Pharmaceutical industry



Mechanical pressure measuring device  
+ COMPACT pressure transmitter  
+ Clamp diaphragm seal

- Device combinations suitable for hygienic use in the pharmaceutical industry
- Perfect cleaning in CIP and SIP applications
- Electro-polishing of parts wetted by the medium
- EHEDG-certified diaphragm seal

## WHAT IS YOUR PERFECT COMBINATION?



We'd be glad to advise you in the choice of your instrument combination and to find the most suitable solution.

## LEGALLY REQUIRED SAFETY

The Ordinance on Industrial Health and Safety requires that pressurised vessels must be permanently monitored, and that the **pressure level must be indicated at all times.**

**A malfunction**, such as a power failure, can lead to the failure of electronic measurements. LABOM's Kombibar devices therefore have a mechanical display on site, in addition to electronic measurement, which enables the measurement to be quickly and simply read off constantly – and requires only one process connection. The electronic measurement delivers independent, highly precise data, which is displayed on the system's control unit and is available for detailed analysis.

## SAFE SOLUTION WITH KOMBIBAR

Let's discuss your measuring tasks!

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