

## **IO-LINK GOES HYGIENIC** **DIGITAL PRESSURE AND** **TEMPERATURE MEASUREMENT TECHNOLOGY**

FOOD PHARMACEUTICALS BIOTECHNOLOGY PROCESS INDUSTRY

# IO-LINK AND LABOM FUTURE-PROOF HY

LABOM is an established supplier for hygienic applications in the **pharmaceuticals, biotechnology, food and beverage industry** and now also offers pressure and temperature transmitters with the globally standardised IO-Link technology.

IO-Link meets the requirements as per DIN EN IEC 61131-9.

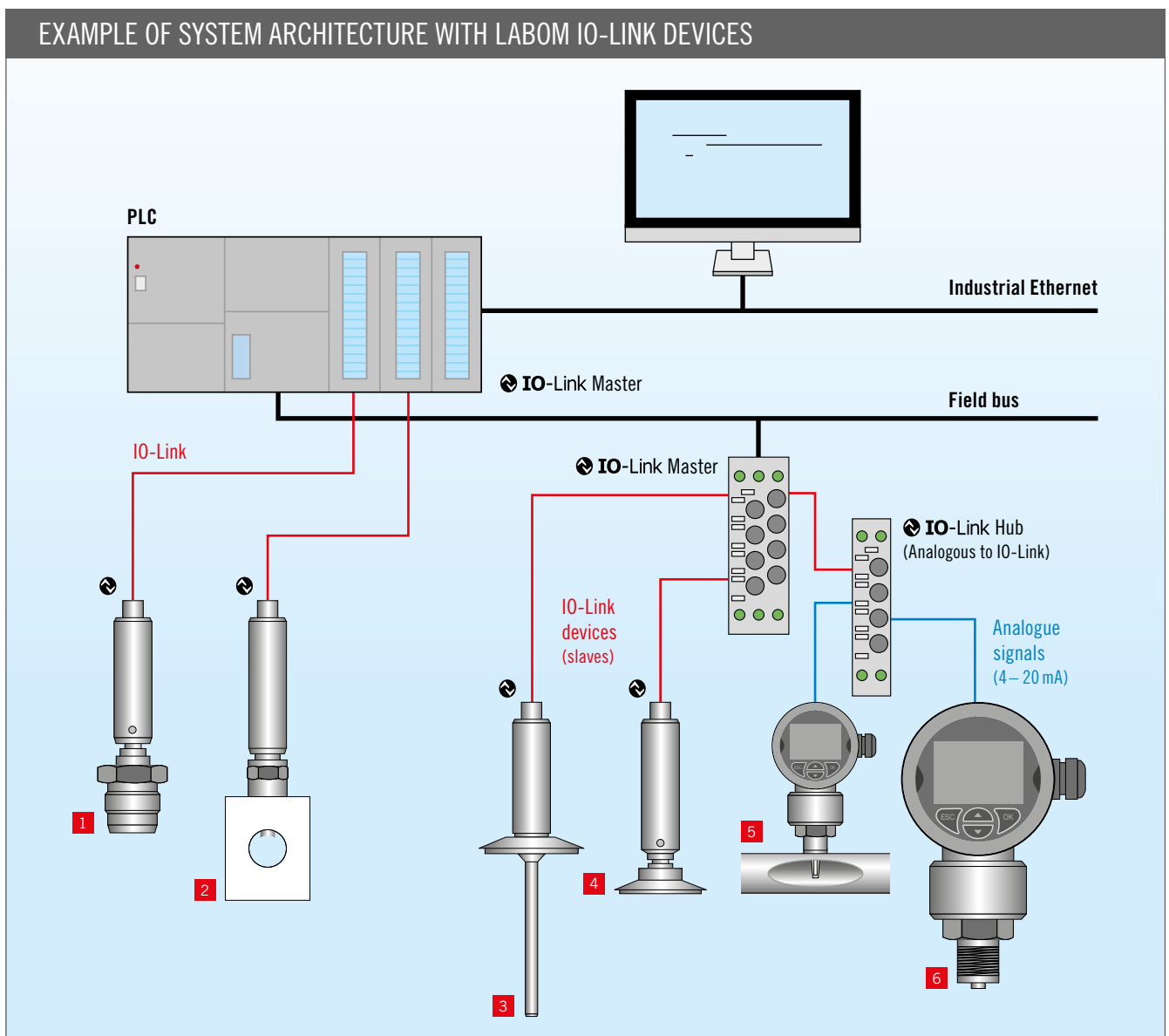
The system consists of a **digital point-to-point connection between the field device (sensor or actuator) and the IO-Link master.**

The **simplicity of a point-to-point connection** facilitates easy, cost effective integration of IO-Link devices into the process control technology.

IO-Link can therefore be used to combine the existing digital infrastructure, e.g. via bus systems. Only the communication between field device and master is managed by IO-Link.

User friendliness is also evident in its **uncomplicated parameterisation**: this can be done via PC and saved in the master.

## EXAMPLE OF SYSTEM ARCHITECTURE WITH LABOM IO-LINK DEVICES



1. Pressure transmitter with HYGIENIC screw-in threads, without gasket, metallic sealing
2. Temperature transmitter with Clamp-on technology for non-invasive measuring without media contact

3. Resistance thermometer for invasive temperature measurement in vessels or pipelines
4. Pressure transmitter with hygienic clamp connection as per DIN 32676
5. Temperature transmitter with digital display and pipeline sensor
6. Pressure transmitter with digital display and threaded connection

# GIENIC MEASURING TECHNOLOGY

## BENEFITS

- Manufacturer-independent standard
- Cost effective technologies
- Rapid reaction time due to high data rate and short cycles
- Easy, fast parameterisation / installation
- Simplified sensor replacement and automatic parameterisation in the event of a fault
- High reliability
- Field bus neutrality

## PRESSURE TRANSMITTER **COMPACT IO-LINK**

for diaphragm seal operation, type series CA1510



- Digital pressure transmitter with IO-Link V1.1 output signal
- Data transmission rate COM 3 (230.4 kBaud)
- Hygiene-compliant design as per EHEDG recommendations
- Accuracy  $\leq 0.3\%$
- Housing and wetted parts made from stainless steel, protection class IP 65
- Nominal ranges -400 ... 400 mbar to -1 ... 100 bar
- Maximum of 2 switch outputs
- Optional electropolishing of wetted parts

## TRANSMITTER FOR TEMPERATURE **Pt100 IO-LINK**

for compact thermometers, type series PA2530

- Digital temperature measuring transmitter with IO-Link V1.1 output signal
- Data transmission rate COM 3 (230.4 kBaud)
- Accuracy  $\leq 0.1\%$
- Pt100 input as per EN 60751
- Nominal range -50 ... 260 °C
- Maximum of 2 switch outputs
- Can be combined with the MiniTherm resistance thermometer (illustration) or with Clamp-on technology



## A suitable combination for every process

Our IO-Link measuring transmitters can be combined with many process connections and pieces of measuring equipment from the LABOM product range. The typical issues related to hygienic production are fully covered, such as surface qualities, inspections, specific process connections or the quality of wetted parts.

Diaphragm seals in all common designs are available for pressure measuring; the MiniTherm series can be selected for fast response temperature measurement using a replaceable measuring insert and Clamp-on can be used for non-invasive temperature measurement.

## Typical hygienic diaphragm seals:



**DL3/4** clamp connection as per ISO 2852, DIN 32676 and Tri-Clamp



**DL5** aseptic design to DIN 11864, Südmo, Guth, Neumo-BioConnect

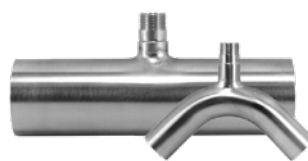


**DL8080** VARIVENT design, in-line housing, for hygienic applications

## Potential combinations for temperature process connections:



**HP1200** thermowell for MiniTherm resistance thermometers



**HP1100** HIT thermowell system: hygienic invasive temperature measurement



**GA2610** IO-Link Pt100 resistance thermometer with Clamp-on technology

## CONSULTATION INTERESTED?

Let's discuss your measuring tasks!

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