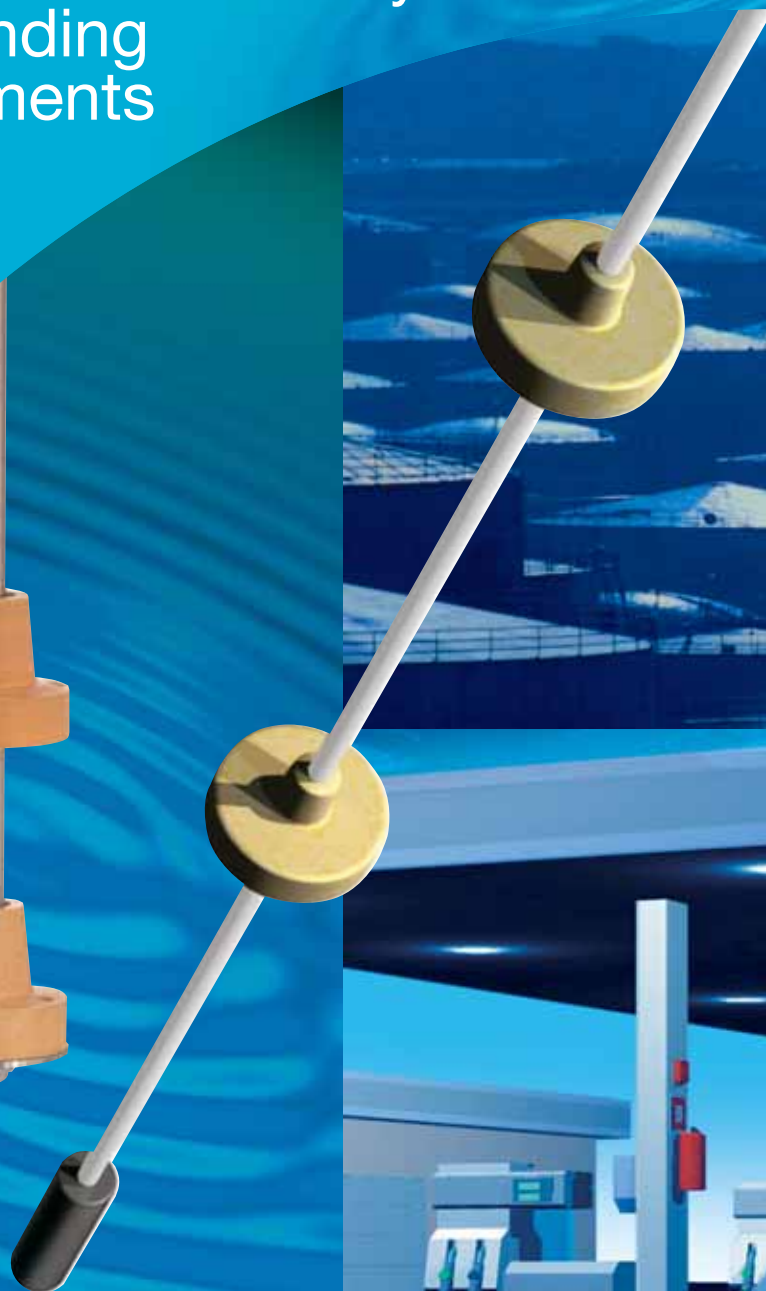


# LabkoMax and LabkoFlex

Reliability and accuracy  
for demanding  
measurements



- Petrol stations
- Oil terminals
- Refineries
- Petrochemical industry
- Other industrial applications

 **Labkotec**  
INDUTRADE GROUP

# LabkoMax and LabkoFlex

– reliability and accuracy for demanding measurements, easily and inexpensively

The 7100 series LabkoMax and LabkoFlex sensors are based on the magnetostrictive measuring principle. Therefore they are ideal for applications demanding high accuracy and good repeatability. Both sensor types 7100MR and 7100V/B give as an output the product level, temperature and eventual condensed water level. The sensor's wetted parts are of stainless steel and PVDF which suit very well for fuels like gasoline, diesel, fuel oil and various additives plus for many industrial chemicals. Both sensor types are approved according to ATEX directive 94/9/EC.

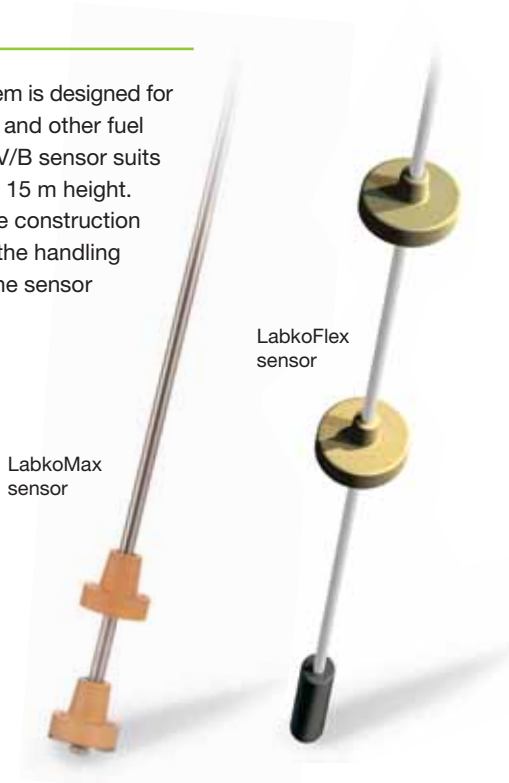


## LabkoMax

The LabkoMax fuel storage monitoring system is used in service stations, terminals, refineries and other fuel distribution sites. Typically the 7100MR sensors are used in tanks which are less than 5 m high.

## LabkoFlex

The LabkoFlex system is designed for terminals, refineries and other fuel storages. The 7100V/B sensor suits best for tanks of 5 - 15 m height. Thanks to its flexible construction and PVDF material the handling and installation of the sensor is easy and quick.



## MPS-4 interface and barrier unit

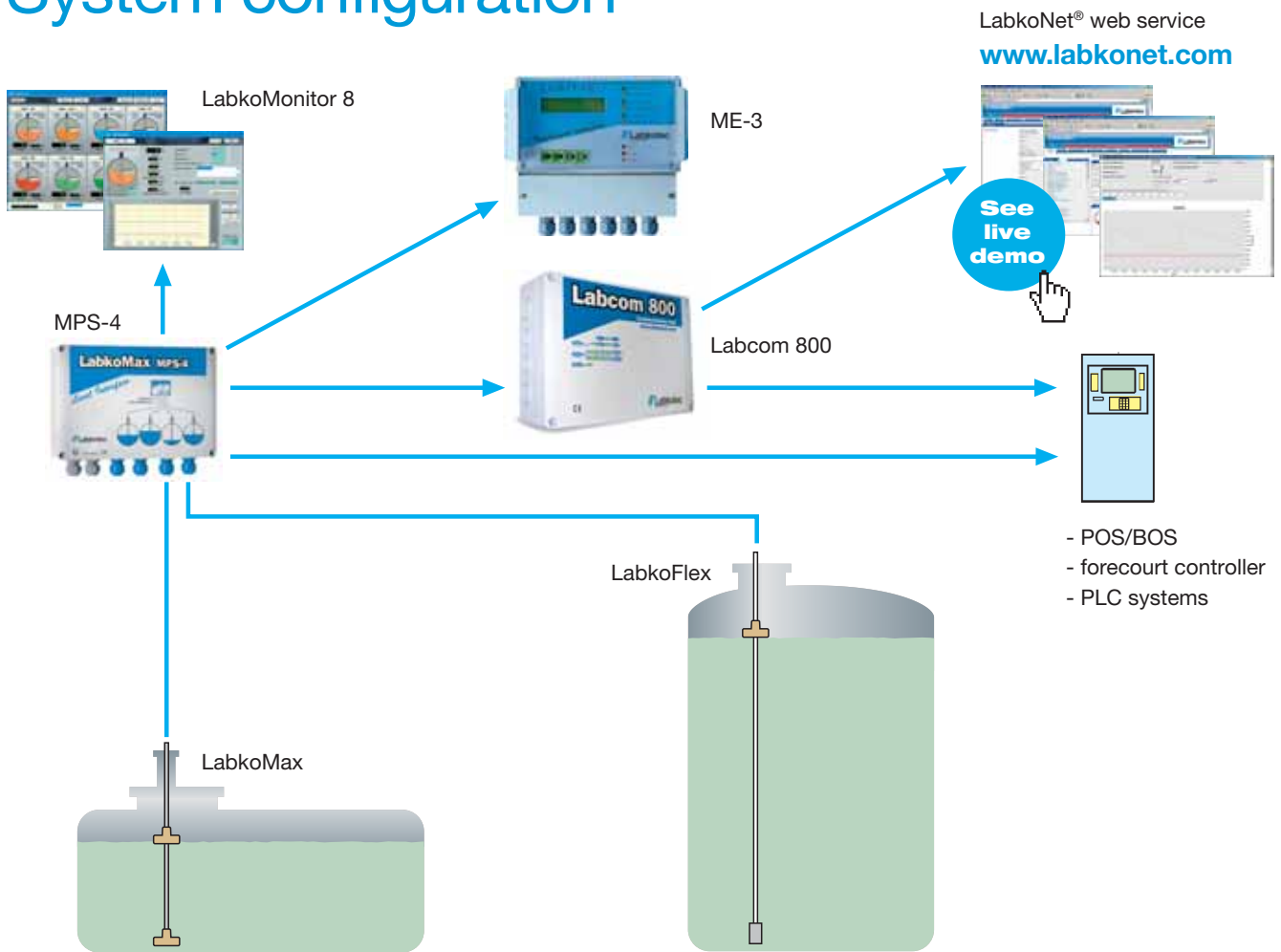
The MPS-4 is the interface and barrier unit of LabkoMax and LabkoFlex systems. One MPS-4 unit can handle 1 to 4 sensors. When transmitting measurement information from the MPS-4 interface unit, either a current loop or a RS232/485 multi transaction is used as an output. MPS-4 is also MODBUS RTU compatible. The storage monitoring can also be done independently with the LabkoMonitor PC monitoring software or with a separate ME-3 display unit.

It is easy to connect LabkoMax and LabkoFlex also to an Internet based LabkoNet® monitoring system.



MPS-4 interface and barrier unit

# System configuration



## LabkoMax/LabkoFlex is open and versatile

### Stand-alone tank monitoring – or via the internet

A stand-alone tank monitoring system with local and/or remote monitoring can easily be configured with LabkoMonitor 8 pc software, ME-3 display unit or with LabkoNet Fuel internet-enabled remote monitoring system.

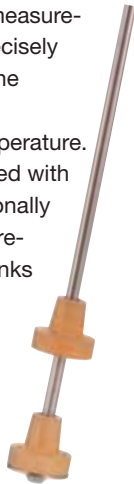
LabkoNet Fuel website, [www.labkonet.com](http://www.labkonet.com) provides you with tank information, alarm reports and trend curves from any time period. The tank information can be updated anytime with LabkoNet Fuel. LabkoMax or LabkoFlex combined with LabkoNet Fuel is an essential tool in e-logistics.

### Wet stock inventory system interfaced to forecourt controller, POS or outdoor payment terminal

MPS-4 interface unit can directly be connected to a large variety of forecourt controllers, POS and outdoor payment terminals. When the tank reconciliation and automatic level to volume tabling is required, the MPS-4 interface unit should be connected to Labcom 800 communication unit. Dynamic product loss control, i.e. comparison of sold and measured volumes, can also be realized by using the Labcom 800.

## LabkoMax

The 7100MR series level measurement sensor measures precisely and reliably the height of the product level, the possible condensed water and temperature. The sensor can be equipped with one or two floats and optionally with one or five temperature-sensors. Best suited for tanks less than 5 m high.



## MPS-4



The MPS-4 serves as an Ex-barrier for the 7100 series sensors, it also transforms the measurement information into a digital mode. Max. four 7100 series sensors can be connected to one MPS-4. Compatible with most common pump controllers and cash registers as well as with outdoor payment terminals (OPT). Includes also an MODBUS RTU interface.

## LabkoMonitor



A simple and easy to use PC control software for max. 24 sensors of the 7100 series. Possible to set tank specific alarms for high and low limits. Previous measurement information is saved for further needs. Comprehensive reporting and a tank specific leak control.

## LabkoFlex

The 7100V/B series level measurement sensor gives the same output as the 7100MR series sensor, but is best suited for tanks which are 5 - 15 m high.



## ME-3



A separate display and control device for max. eight sensors of the 7100 series. The level information, condensed water and temperature will be shown on the display. Possible to program container specific alarms for upper and lower limits. Can also be connected to field controllers, cash devices or outdoor payment terminal (OPT), with an RS232 interface.

## LabkoNet® service



On the LabkoNet® service page it is possible to observe the level information of containers in real-time. You can check the levels as a trend diagram over a certain period of time. A very informative tool when planning transportations and optimizing container's filling degree. The LabkoNet® service site provides also the alarm information safely and secure at all times.

[www.labkonet.com](http://www.labkonet.com)

# Labkotec Oy

The Labkotec product range covers solutions for petrol stations, oil terminals, environmental protection, hazardous waste treatment and wet stock control.

Labkotec has 35 employees and all functions are ISO 9001 and ISO 14001 certified. Head office is located in Kangasala and sales offices in Oulu, Helsinki, Manchester and Stockholm.

Labkotec is a member of the Indutrade group.

Labkotec product range consists of:

- Tank level gauges for petrol, diesel and LPG.
- Local monitoring systems
- Internet-enabled LabkoNet® remote monitoring system [www.labkonet.com](http://www.labkonet.com)
- SET-alarm units for oil separators and grease traps
- Leak detectors
- Water bottom sensors



[www.labkotec.fi](http://www.labkotec.fi)  
[www.labkonet.com](http://www.labkonet.com)

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