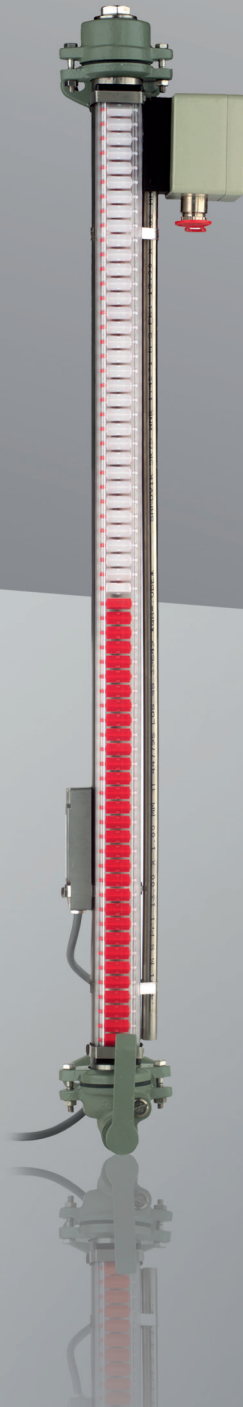




MESSKO® MMK

OIL LEVEL INDICATOR  
WITH MAGNETIC FLAPS  
FOR TRANSFORMERS.

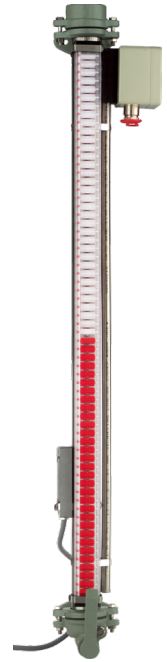
[WWW.REINHAUSEN.COM](http://WWW.REINHAUSEN.COM)



# MESSKO® MMK – UNIVERSAL OIL LEVEL INDICATOR FOR INSTALLATION IN NEW SYSTEMS AND RETROFITTING.

The MESSKO® MMK oil level indicator enables the oil level to be displayed in the expansion tank without a float switch and without having to remove the existing flange connections. The magnetic flag assembly indicator can easily be retrofitted to existing flange connections that comply with DIN 42 552 to provide a perfect replacement for glass tube indicators, which are susceptible to faults. A measurement tube is flanged to the tank to act as the parallel vessel. This tube contains a cylindrical float made of BUNA N with a permanent magnet fitted in it. On the outside of the measurement tube there is the display rail with the magnetic flaps.

The float magnet turns the magnetic flaps in the display rail from white to red if the level of liquid is rising and from red to white if the level is falling. In this way the level in the tank can be read clearly from the outside, even from large distances. As an option, limit value contacts and a measurement value remote transfer system can also be installed.

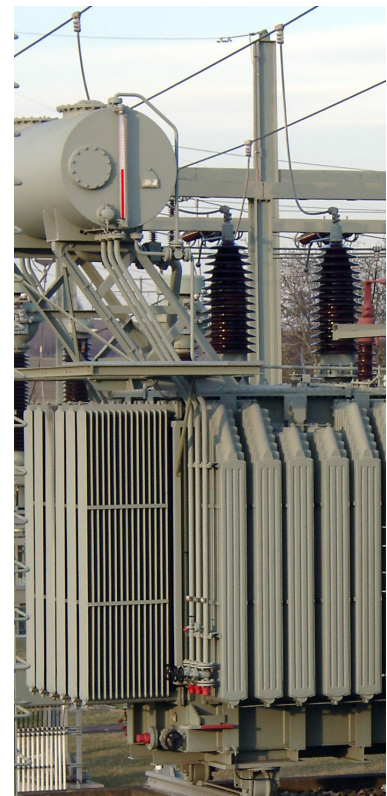


## Problems of existing oil level indicators that comply with DIN 42 552 with glass tubes

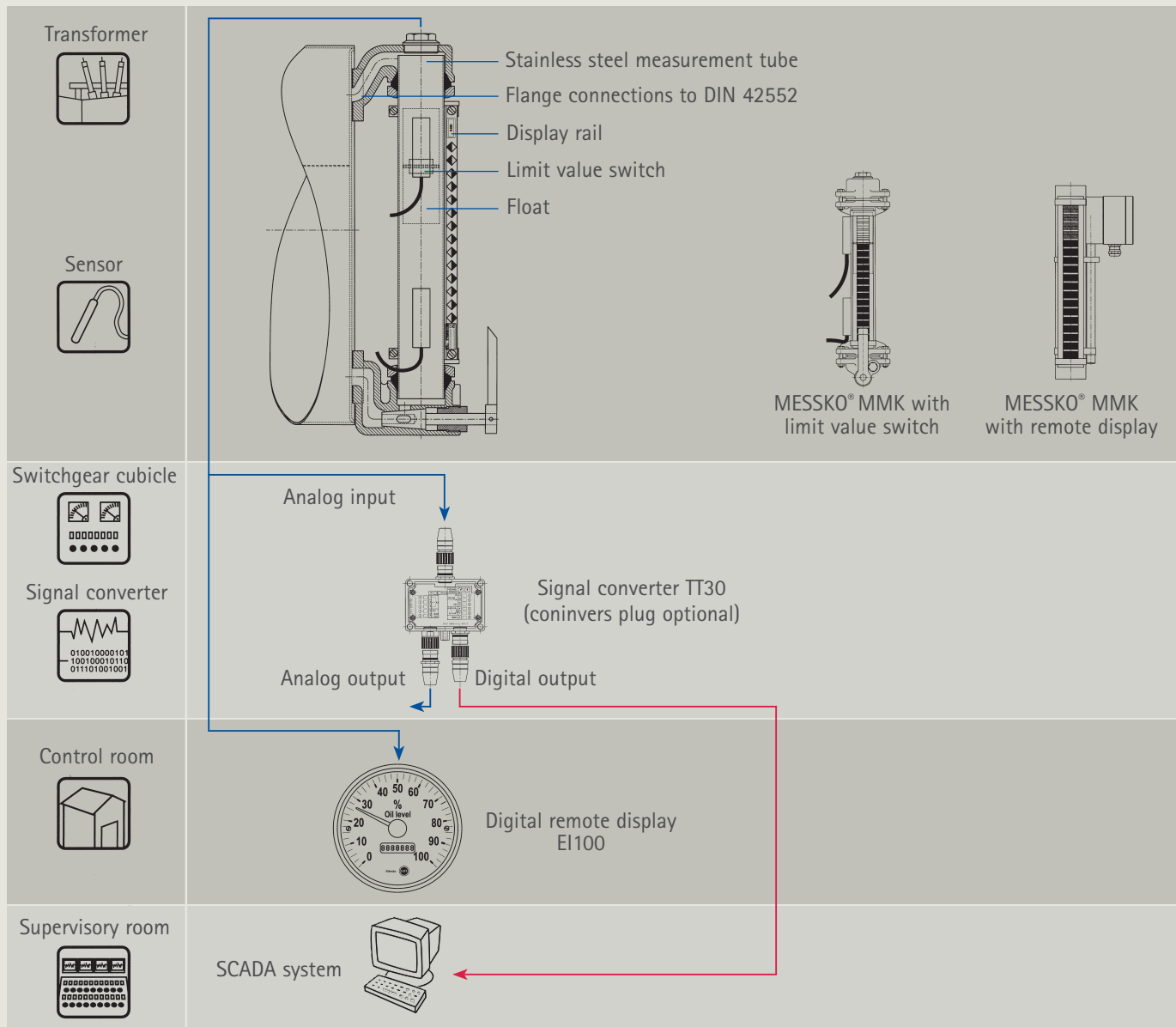
- ▮ Highly susceptible to glass breakage
- ▮ Poor legibility caused by dirt
- ▮ Destruction by vandalism
- ▮ No limit value contacts
- ▮ No remote transfer facility
- ▮ Great deal of servicing work required

## Benefits of the MESSKO® MMK measurement and display system

- ▮ MMK with magnetic flaps can be retrofitted to existing DIN connections
- ▮ The level indicators operate without an external power source
- ▮ The display rail is made of impact and torsion-resistant Makrolon (polycarbonate); this material remains weather-resistant and glass-clear for many years, thus maintaining its high legibility.
- ▮ If the display rail is damaged, it can be replaced with ease without having to empty the oil tank
- ▮ The measurement principle is simple and not susceptible to faults. Vibrations, shocks and oscillations will not interfere with operation.
- ▮ Limit value contacts and equipment for remote measurement value transfer can be retrofitted.
- ▮ Very good legibility of the level since the magnetic flaps are also clearly visible from the side and from below. The display rail can also be turned into the perfect position on the measurement tube.
- ▮ Very little servicing work required



# MESSKO® MMK – FUNCTION BLOCK FOR OIL LEVEL MEASUREMENT.



MESSKO® MMK	Technical data
<b>Material</b>	
Measurement tube	Stainless steel 1.4571, 40 x 1 mm
Float	BUNA N with fitted permanent magnet
Display rail	Makrolon (polycarbonate), glass clear UV-resistant
<b>Characteristics</b>	
Measurement medium	Mineral oil (not suitable for alternative media e.g. silicon oil, pyranol and similar)
Measurement range	Arbitrary (max. 2 m)
Measurement accuracy	+/- 2 display valves
Operating data	Max. pressure up to 1 bar
Density	Min. 0.7 g/cm <sup>3</sup>
Viscosity	Max. 150 cSt (1.5 x 10 <sup>-4</sup> m <sup>2</sup> /s)
Operating temperature	-20...+120 °C
Connection	DIN 42 552 Form B
Options	Limit value contacts 230 V AC/0.8 A/60 VA/40 W Remote measurement value transfer 4 ... 20 mA

**Messko GmbH**

Gewerbegebiet An den Drei Hasen  
Messko-Platz 1  
61440 Oberursel, Germany

Phone: +49 6171 6398 0

Fax: +49 6171 6398 98

Email: [messko-info@reinhausen.com](mailto:messko-info@reinhausen.com)

[www.reinhausen.com/messko](http://www.reinhausen.com/messko)

Please note:

The data in our publications may differ from  
the data of the devices delivered. We reserve  
the right to make changes without notice.

IN2059/04/01 EN – MESSKO® MMK –  
MS99088903 - 02/19 – ©Messko GmbH 2019

THE POWER BEHIND POWER.

