

Level measuring instruments



 Part of your business

PLUS series

Combines the tried-and-trusted bypass with further independent measuring principles

PLUS

- Guided microwave (TDR)
- Reed measuring chain
- Magnetostrictive
- Limit switch (magnetic, tuning fork)

The wide range of combination possibilities offer a very large application spectrum.

Benefits

- Compact design
- Only 2 process connections required
- Absolute measuring redundancy possible
- Visual level measurement constantly given
- Up to 3 independent measuring principles possible
- Customer-specific versions

Output signals/communication

2- and 4-wire technology, 4 ... 20 mA, HART®, PROFIBUS® PA, FOUNDATION™ Fieldbus/DTM/FDT (PACTware™)





KOplus

**Coaxial: 2 sensors,
1 reference chamber**

Material:	Stainless steel, 6Mo, Hastelloy, titanium, Monel, Inconel, Incoloy, Duplex, Super Duplex
Pressure:	0 ... 40 bar
Temperature:	-200 ... +400 °C
Density:	≥ 400 kg/m ³



DUplus

**Dual: 2 external
chambers**

Material:	Stainless steel, 6Mo, Hastelloy, titanium, Monel, Inconel, Incoloy, Duplex, Super Duplex
Pressure:	0 ... 400 bar
Temperature:	-200 ... +400 °C
Density:	≥ 400 kg/m ³



SIplus

**Single: 1 external
chamber**

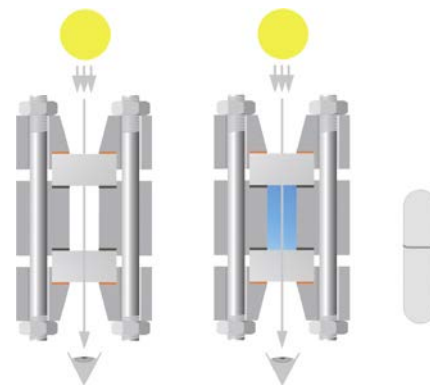
Material:	Stainless steel, 6Mo, Hastelloy, titanium, Monel, Inconel, Incoloy, Duplex, Super Duplex
Pressure:	0 ... 400 bar
Temperature:	-200 ... +400 °C
Density:	≥ 400 kg/m ³

Sight glass level indicators

For steam generation and the process industry

Transparent sight glass level indicator

With this level indicator design, the liquid is encapsulated between two transparent sight glasses. This allows the liquid to be looked through and thus provides a clear indication of the level. Transparent level indicators are available in double-cover plate design for pressure ranges up to PN100. They are the most suitable indicators for steam applications above 35 bar, where mica shields have to be used to protect the sight glasses from corrosion by the steam boiler water. They can also be utilised in a great number of other applications, in particular for observing interface layers or liquid colour. A backlighting illuminator can be fitted to the rear to improve visibility.

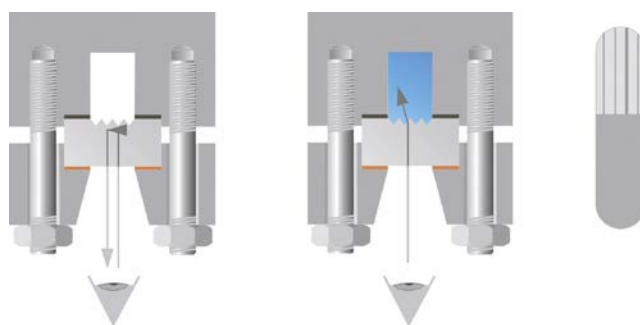


Gas phase (bright), liquid phase (bright), phase boundary (dark)

Operating principle “transparent”

Reflex sight glass level indicator

The principle of the reflex level indicator is based on the reflection of light. In the gas or steam phase, the light is reflected by the prismatic grooves of the sight glass so that bright indication is achieved. In the liquid phase, the light is absorbed, resulting in a dark indication of the level. Reflex level indicators are available in cover box design for pressure ranges up to PN 25 and in cover plate design for pressure ranges up to PN 100. They are the suitable and favourably priced indicators for steam application up to 35 bar and are also suited for numerous applications in the process industry.



Gas phase (bright)

Liquid phase (dark)

Operating principle “reflex”

LGG



Material:	Forged steel, heat-resistant C-steel, stainless steel, Monel, Hastelloy
Design:	Available as welded, glass tube, reflection, transparent and refraction indicators
Pressure:	0 ... 250 bar
Temperature:	-200 ... +400 °C
Data sheet:	LM 33.01

