

WIKAI

Standard product portfolio

Pressure | Temperature | Level | Force | Flow | Calibration technology



WIKAI

Part of your business



Alexander Wiegand,
Chairman and CEO, WIKA

About us

As a family-run business acting globally, with 10,000 highly qualified employees, the WIKA group of companies is a worldwide leader in pressure and temperature measurement. The company also sets the standard in the measurement of level, force and flow, and in calibration technology.

Founded in 1946, WIKA is today a strong and reliable partner for all the requirements of industrial measurement technology, thanks to a broad portfolio of high-precision instruments and comprehensive services.

With manufacturing locations around the globe, WIKA ensures flexibility and the highest delivery performance. Every year, over 50 million quality products, both standard and customer-specific solutions, are delivered in batches of 1 to over 10,000 units.

With numerous wholly owned subsidiaries and partners, WIKA competently and reliably supports its customers worldwide. Our experienced engineers and sales experts are your competent and dependable contacts locally.

Submersible pressure sensors

Hydrostatic level measurement

Applications

- Level measurement in rivers and lakes
- Control of sewage lift and pumping stations
- Monitoring of sewage, settling and rainwater retention basins
- Level measurement in vessel and storage systems for oils and fuels

Special features

- Slimline and hermetically sealed design up to 300 m water column
- Highly resistant versions available
- Explosion protection per ATEX, IECEx, FM and CSA
- Drinking water conformity per KTW and ACS
- Temperature output, HART® and low-power output signal for battery operation



LF-1

For superior applications

Accuracy (± % of span)	≤ 0.5 or ≤ 1
Measuring range	0 ... 0.1 to 0 ... 6 bar
Output signal	<ul style="list-style-type: none"> ■ 4 ... 20 mA (2-wire) ■ 4 ... 20 mA + HART® (2-wire) ■ DC 0.1 ... 2.5 V (3-wire)
Special feature	<ul style="list-style-type: none"> ■ Suitable for measurements in contaminated and aggressive media ■ An optimised discharge behaviour and a large pressure port prevent the instrument from clogging and ensure a minimum maintenance effort ■ Can be used in explosion-protected areas ■ Developed for wireless applications
Data sheet	LM 40.04

LS-10

Standard version

Accuracy (± % of span)	≤ 0.5
Measuring range	0 ... 0.25 to 0 ... 10 bar
Output signal	4 ... 20 mA (2-wire)
Data sheet	PE 81.55

LH-20

High-performance

Accuracy (± % of span)	≤ 0.2 or 0.1
Measuring range	<ul style="list-style-type: none"> ■ 0 ... 0.1 to 0 ... 25 bar ■ 0 ... 1.6 to 0 ... 25 bar abs.
Special feature	<ul style="list-style-type: none"> ■ Scalable measuring range (optional) ■ Resistant against the harshest environmental conditions ■ Reliable and secure by double-sealed design ■ Titanium case for especially high resistance (optional)
Data sheet	PE 81.56

Continuous measurement with float for industrial applications

With reed measuring chain

Applications

- Level measurement of liquids in machine building
- Control and monitoring tasks for hydraulic power packs, compressors and cooling systems

Special features

- Media compatibility: Oil, water, diesel, refrigerants and other liquids
- Permissible medium temperature: -30 ... +120 °C
- Output signals for level and temperature (optional) as resistance output signal or 4 ... 20 mA current output
- Measurement principle: Reed-chain technology
- Accuracy, resolution: 24, 12, 10, 6 or 3 mm



RLT-1000

Stainless steel version



Accuracy	24, 12, 10, 6 or 3 mm
Output signal	Resistance signal or 4 ... 20 mA
Temperature	-30 ... +80 °C (+120 °C optional)
Guide tube length	150 ... 1,500 mm
Data sheet	LM 50.02

RLT-2000

Plastic version



Accuracy	24, 12, 10, 6 or 3 mm
Output signal	Resistance signal or 4 ... 20 mA
Temperature	-10 ... +80 °C (-30 ... +120 °C optional)
Guide tube length	150 ... 1,500 mm
Data sheet	LM 50.01

RLT-3000

Stainless steel version with temperature output signal



Accuracy	24, 12, 10, 6 or 3 mm
Level output signal	4 ... 20 mA
Output signal	4 ... 20 mA, Pt100 or Pt1000
Temperature	-30 ... +100 °C
Guide tube length	150 ... 1,500 mm
Data sheet	LM 50.05

Continuous measurement with float for the process industry

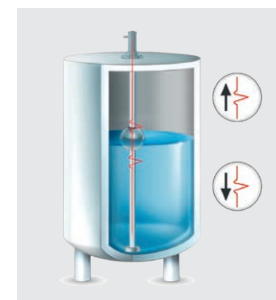
Magnetostrictive

Applications

- High-accuracy level measurement for almost all liquid media
- Chemical, petrochemical industry, natural gas, offshore, shipbuilding, machine building, power generating equipment, power plants
- Process water and drinking water treatment, food and beverage industry, pharmaceutical industry

Special features

- Process- and system-specific solutions possible
- Operating limits:
 - Operating temperature: $T = -90 \dots +400 \text{ }^\circ\text{C}$
 - Operating pressure: $P = \text{vacuum to } 100 \text{ bar}$
 - Limit density: $\rho \geq 400 \text{ kg/m}^3$
- Resolution $< 0.1 \text{ mm}$
- Wide variety of different electrical connections, process connections and materials
- Explosion-protected versions



FLM-S

Stainless steel version



Process connection	<ul style="list-style-type: none"> ■ Mounting thread ■ Flange: DIN, ANSI
Guide tube length	Max. 6,000 mm
Pressure	0 ... 200 bar
Temperature	-90 ... +450 °C
Density	$\geq 400 \text{ kg/m}^3$
Data sheet	LM 20.01

FLM-SP

Plastic version



Process connection	<ul style="list-style-type: none"> ■ Mounting thread ■ Flange DIN, ANSI
Guide tube length	Max. 5,000 mm
Pressure	0 ... 16 bar
Temperature	-10 ... +100 °C
Density	$\geq 800 \text{ kg/m}^3$
Data sheet	LM 20.01

FLM-H

Hygienic version, for sanitary applications



Process connection	<ul style="list-style-type: none"> ■ Clamp ISO 2852 ■ Clamp DIN 32767 ■ Aseptic thread DIN 11864-1 ■ Aseptic liner DIN 11864-1 ■ Aseptic flange DIN 11864-2 ■ Aseptic clamp DIN 11864-3 ■ VARIVENT® ■ BioConnect®
Material	1.4435 (316L) or 1.4404 (316L)
Guide tube length	Max. 6,000 mm
Pressure	10 bar
Temperature	-40 ... +250 °C
Density	$\geq 770 \text{ kg/m}^3$
Data sheet	LM 20.01

With reed measuring chain

Applications

- Level detection for almost all liquid media
- Chemical, petrochemical industry, natural gas, offshore, shipbuilding, machine building, power generating equipment, power plants
- Process water and drinking water treatment, food and beverage industry, pharmaceutical industry

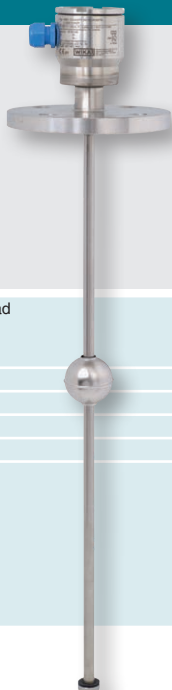
Special features

- Process- and system-specific solutions possible
- Operating limits:
 - Operating temperature: $T = -80 \dots +200 \text{ }^\circ\text{C}$
 - Operating pressure: $P = \text{vacuum to } 80 \text{ bar}$
 - Limit density: $\rho \geq 400 \text{ kg/m}^3$
- Wide variety of different electrical connections, process connections and materials
- Optionally with programmable and configurable head-mounted transmitter for 4 ... 20 mA field signals, HART®, PROFIBUS® PA and FOUNDATION™ Fieldbus
- Explosion-protected versions



FLR-SA, FLR-SB

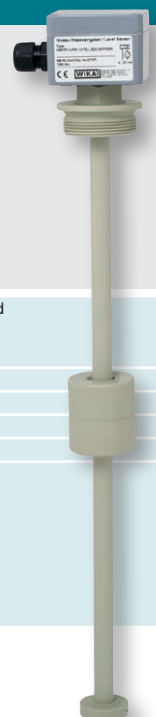
Stainless steel version



Process connection	<ul style="list-style-type: none"> ■ Mounting thread ■ Flange DIN, ANSI, EN
Guide tube length	Max. 6,000 mm
Pressure	0 ... 100 bar
Temperature	-80 ... +200 °C
Density	$\geq 400 \text{ kg/m}^3$
Data sheet	LM 20.02

FLR-PA, FLR-PB

Plastic version, PP, PVDF, PP



Process connection	<ul style="list-style-type: none"> ■ Mounting thread ■ Flange DIN, ANSI, EN
Guide tube length	Max. 5,000 mm
Pressure	0 ... 3 bar
Temperature	-10 ... +100 °C
Density	$\geq 800 \text{ kg/m}^3$
Data sheet	LM 20.02

FLR-HA3

Hygienic version, for sanitary applications



Process connection	<ul style="list-style-type: none"> ■ Clamp ISO 2852 ■ Clamp DIN 32767 ■ Aseptic thread DIN 11864-1 ■ Aseptic liner DIN 11864-1 ■ Aseptic flange DIN 11864-2 ■ Aseptic clamp DIN 11864-3 ■ VARIVENT® ■ BioConnect®
Material	1.4435 (316L) or 1.4404 (316L)
Guide tube length	Max. 6,000 mm
Pressure	10 bar
Temperature	-40 ... +250 °C
Density	$\geq 770 \text{ kg/m}^3$
Data sheet	LM 20.02

Float switches for industrial applications

Applications

- Level measurement of liquids in machine building
- Control and monitoring tasks for hydraulic power packs, compressors and cooling systems

Special features

- Media compatibility: Oil, water, diesel, refrigerants and other liquids
- Permissible medium temperature range: -30 ... +150 °C
- Up to 4 switching outputs freely definable as normally open, normally closed or change-over contact
- Optional temperature output signal, selectable as preconfigured bimetal switch or either Pt100 or Pt1000



RLS-1000

Stainless steel version



Switch points	Up to 4 (normally closed, normally open, change-over contact)
Medium temperature	-30 ... +80 °C -30 ... +150 °C optional
Guide tube length	60 ... 1,500 mm
Data sheet	LM 50.03

RLS-2000

Plastic version



Switch points	Up to 4 (normally closed, normally open, change-over contact)
Medium temperature	-10 ... +80 °C -30 ... +120 °C optional
Guide tube length	100 ... 1,500 mm
Data sheet	LM 50.04

RLS-3000

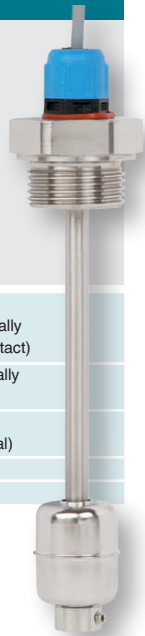
Stainless steel version, with temperature output signal



Switch points	Up to 3 (normally closed, normally open, change-over contact)
Temperature output	Normally closed, normally open, Pt100, Pt1000
Medium temperature	-30 ... +80 °C (-30 ... +150 °C optional)
Guide tube length	60 ... 1,500 mm
Data sheet	LM 50.06

RLS-4000

Intrinsic safety Ex i



Switch points	Up to 4 (normally closed, normally open, change-over contact)
Temperature output (optional)	Normally closed, normally open, Pt100, Pt1000
Medium temperature	-30 ... +80 °C (-30 ... +150 °C optional)
Guide tube length	60 ... 1,500 mm
Data sheet	LM 50.07

RLS-5000

For the shipbuilding industry
(bilge water tanks)



Material	Stainless steel 1.4571
Switching output	Normally closed, normally open, change-over contact
Medium temperature	-40 ... +80 °C
Electrical output	Marine cable, IP68 (8 m)
Test device	optional
Data sheet	LM 50.08

RLS-6000

For water and wastewater



Switching output	Normally closed, normally open, change-over contact
Density	≥ 1,000 kg/m ³
Medium temperature	-10 ... +60 °C
Guide tube length	150 ... 1,000 mm
Data sheet	LM 50.09

LSD-30

Electronic level switch, with display



Measuring range	Probe length 250, 370, 410, 520, 730 mm (others on request)
Density	≥ 0.88 g/cm ³ (stainless steel float)
Output signal	■ 1 or 2 switching outputs (PNP or NPN) ■ Analogue output (optional)
Process connection	G 3/4 A, 3/4 NPT (others on request)
Data sheet	LM 40.01

GLS-1000

PNP or NPN switching outputs



Switch points	Up to 4 (normally closed, normally open)
Temperature output	Pt100, Pt1000
Medium temperature	-40 ... +80 °C (-40 ... +110 °C optional)
Guide tube length	60 ... 1,000 mm
Accuracy	≤ 1 mm
Data sheet	LM 50.10

Float switches for the process industry

Robust switches for liquid media

Applications

- Level measurement for almost all liquid media
- Pump and level control and monitoring of distinct filling levels
- Chemical, petrochemical industry, natural gas, offshore, shipbuilding, machine building, power generating equipment, power plants
- Process water and drinking water treatment, food and beverage industry

Special features

- Large range of application due to the simple, proven functional principle
- For harsh operating conditions, long service life
- Operating limits:
 - Operating temperature: $T = -196 \dots +350 \text{ }^\circ\text{C}$
 - Operating pressure: $P = \text{vacuum to } 40 \text{ bar}$
 - Limit density: $\rho \geq 300 \text{ kg/m}^3$
- Wide variety of different electrical connections, process connections and materials
- Explosion-protected versions



FLS-SA, FLS-SB

Stainless steel version, for vertical installation



Switch points	Max. 8 switch points
Process connection	<ul style="list-style-type: none"> ■ Mounting thread ■ Flange DIN, ANSI, EN
Guide tube length	Max. 6,000 mm
Pressure	0 ... 100 bar
Temperature	-196 ... +300 °C
Density	$\geq 390 \text{ kg/m}^3$
Data sheet	LM 30.01

FLS-PA, FLS-PB

Plastic version, for vertical installation



Switch points	Max. 8 switch points
Process connection	<ul style="list-style-type: none"> ■ Mounting thread ■ Flange DIN, ANSI, EN
Guide tube length	Max. 5,000 mm
Pressure	0 ... 3 bar
Temperature	-10 ... +100 °C
Density	$\geq 400 \text{ kg/m}^3$
Data sheet	LM 30.01

FLR-HA3

Hygienic version, for sanitary applications



Process connection	<ul style="list-style-type: none"> ■ Clamp ISO 2852 ■ Clamp DIN 32767 ■ Aseptic thread DIN 11864-1 ■ Aseptic liner DIN 11864-1 ■ Aseptic flange DIN 11864-2 ■ Aseptic clamp DIN 11864-3 ■ VARIVENT® ■ BioConnect®
Material	1.4435 (316L) or 1.4404 (316L)
Guide tube length	Max. 6,000 mm
Pressure	10 bar
Temperature	-40 ... +250 °C
Density	$\geq 770 \text{ kg/m}^3$
Data sheet	LM 20.02

Material	1.4435 (316L) or 1.4404 (316L)
Guide tube length	Max. 6,000 mm
Pressure	10 bar
Temperature	-40 ... +250 °C
Density	$\geq 770 \text{ kg/m}^3$
Data sheet	LM 20.02



ELS-S

For lateral mounting with external chamber



External chamber	Stainless steel
Process connection	Threaded pipe connection GE10-LR galvanised steel
Pressure	Up to 6 bar
Temperature	-30 ... +300 °C
Data sheet	LM 30.03

ELS-A

For lateral mounting with external chamber



External chamber	Aluminium
Process connection	Threaded pipe connection GE10-LR galvanised steel
Pressure	Max. 1 bar
Temperature	-30 ... +150 °C
Data sheet	LM 30.03

HLS-M1, HLS-M2

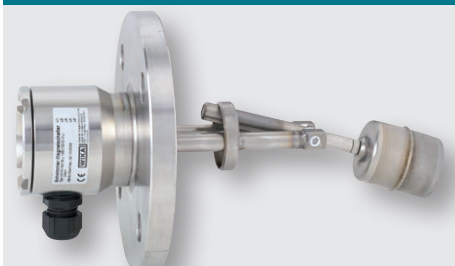
Plastic or stainless steel version, with cable outlet



Process connection	<ul style="list-style-type: none"> ■ ½" NPT (installation in the tank from outside) ■ G ¼" (installation in the tank from inside)
Pressure	HLS-M1: 1 bar HLS-M2: 5 bar
Temperature	HLS-M1: -10 ... +80 °C HLS-M2: -40 ... +120 °C
Material	HLS-M1: PP HLS-M2: Stainless steel 1.4301
Electrical connection	HLS-M1: Cable HLS-M2: Cable or connector
Data sheet	LM 30.06

HLS-S

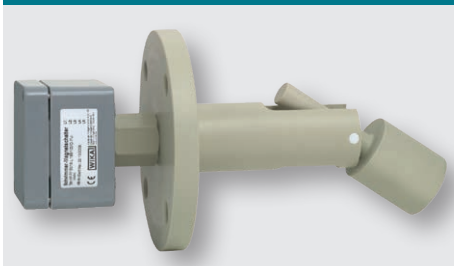
Stainless steel version, for horizontal installation



Process connection	Flange DIN, ANSI, EN
Pressure	0 ... 232 bar
Temperature	-196 ... +350 °C
Density	≥ 600 kg/m³
Material	Stainless steel, titanium
Data sheet	LM 30.02

HLS-P

Plastic version, for horizontal installation



Process connection	Flange DIN, ANSI, EN
Pressure	0 ... 3 bar
Temperature	-10 ... +80 °C
Density	≥ 750 kg/m³
Material	PP
Data sheet	LM 30.02

HLS-S Ex i

Intrinsically safe stainless steel version for horizontal installation



Process connection	<ul style="list-style-type: none"> ■ Mounting flange: DIN DN 50 ... DN 100, PN 6 ... 160, EN 1092 DN 50 ... DN 100, PN 6 ... PN 160, ANSI 2" ... 4", class 150 ... 900 ■ Square flange: DN 80 and DN 92 (other flanges on request)
Pressure	Max. 6 bar
Temperature class	T2 T3 T4 T5 T6
Process temperature	180 °C 160 °C 108 °C 80 °C 65 °C
Ambient temperature at case	80 °C
Density	600 kg/m³
Material	Stainless steel 1.4571
Data sheet	LM 30.02