

LSF SERIES

MAGNETIC FLAP LEVEL GAUGE

FEATURES

- ◎ Made with premium magnets and imported components
- ◎ Available in flange, threaded, or quick-connect versions installation
- ◎ Clear on-site indication with optional digital display
- ◎ Supports alarm settings and 4~20mA output for remote control
- ◎ Optional anti-corrosion, high-temp, high-pressure, explosion-proof types
- ◎ Compatible with various liquids



INTRODUCTION

The LSF series magnetic flap level gauge is designed with high-quality magnets and imported electronic components to offer accurate and reliable level measurement solutions for various industrial applications. With versatile wetted material options such as stainless steel, PP, and stainless steel-lined PTFE, it can withstand a range of working conditions. The LSF series ensures easy installation and can be tailored to specific user needs, featuring various connection types such as flanged, threaded, or quick-connect fittings. It provides clear on-site visibility and can also be connected to a digital display instrument, which allows for alarm point setting and outputs a 4–20mA signal for remote monitoring.

SPECIFICATIONS

Range	0~18m
Accuracy	±10mm
Power supply	24Vdc
Output signal	4~20mA
Medium pressure	≤ 25MPa
Medium temperature	-40~350°C
Medium density	≥ 0.5g/cm ³
Wetted material	stainless steel, PP, and stainless steel-lined PTFE
Process connection	Flange, thread, or quick-connect configuration
Electrical Interface	M20X1.5
Switch type	Normally open, Normally closed, two-way maintained
Contact capacity	AC220V 0.5A, DC24V 0.8A

Type	Application	Parameters
General type LSF-G	It is widely used in petroleum, chemical, power, light industry, environmental protection, and other sectors to provide continuous display of liquid levels in open or pressurized containers.	Working pressure: Normal pressure (below 1.0 MPa) Maximum working temperature: 80° C
Corrosion-resistant type LSF-C	Specially designed for level measurement and indication of corrosive and toxic liquids.	Working pressure: Up to 10 MPa Maximum working temperature: 80° C Measuring range: 0–18 m Medium density: 0.5–1.8 g/cm ³ Default process connection: Flange connection Default display panel orientation: Front-facing, opposite the flange
Heated type LSF-H	Suitable for measuring highly viscous or crystallizing liquid media (requires an auxiliary heating device)	Maximum working pressure: Up to 10 MPa Maximum working temperature: 200° C Measuring range: 0–18 m Medium density: 0.5–1.8 g/cm ³ Default process connection: Flange connection Default display panel orientation: Front-facing, opposite the flange
High-temperature type LSF-T	Suitable for liquid level measurement in containers with pressure below 10 MPa and temperatures ranging from -200° C to 450° C	Maximum working pressure: Up to 10 MPa Maximum working temperature: 200–450° C Measuring range: 0–18 m Medium density: 0.5–1.8 g/cm ³ Default process connection: Flange connection Default display panel orientation: Front-facing, opposite the flange
High-pressure type LSF-P	Designed for liquid level measurement in pressurized vessels with temperatures below 200 ° C and process pressures exceeding 10 MPa (up to 20 MPa)	Maximum working pressure: Over 10 MPa (up to 25 MPa) Maximum working temperature: 200° C Measuring range: 0–6 m Medium density: 0.5–1.8 g/cm ³ Default process connection: Flange connection Default display panel orientation: Front-facing, opposite the flange
High-Temperature & High-Pressure Type LSF-D	Specially designed for liquid level measurement in sealed containers with temperatures exceeding 200 ° C and process pressures above 10 MPa (up to 20 MPa).	Maximum Working Pressure: Above 10 MPa (up to 20 MPa) Maximum Working Temperature: 200–450° C Measuring Range: 0–6 m Medium Density: 0.5–1.8 g/cm ³ Default Process Connection: Flange connection Default Display Panel Orientation: Front-facing, opposite the flange
Explosion-proof Type LSF-E	Specifically designed for flammable and explosive environments requiring remote electrical signal transmission. This instrument is equipped with electronic devices such as 4–20mA current signal output or level transmitters with upper/lower limit alarm settings.	Maximum Working Pressure: Up to 10 MPa Maximum Working Temperature: 120° C Measuring Range: 0–18 m Medium Density: 0.5–1.8 g/cm ³ Default Process Connection: Flange connection Default Display Panel Orientation: Front-facing, opposite the flange
Top-mounted Type LSF-M	Suitable for various underground storage tanks containing flowing media, enabling ground-level liquid level display. Not recommended for environments with strong vibration or intense magnetic interference	Working pressure: Up to 10 MPa Maximum working temperature: 80° C Measuring range: 0–18 m Medium density: 0.5–1.8 g/cm ³ Default process connection: Flange connection Default display panel orientation: Front-facing, opposite the flange