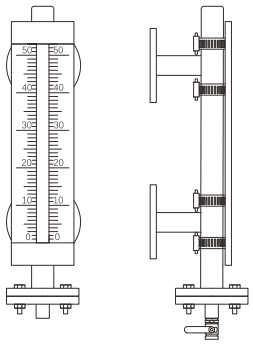
Magnetic flap level gauge

Magnetic flap level gauge (also known as magnetic level indicator) from TPMC delivers continuous, real-time liquid level measurement without requiring external power. As the liquid level changes, the magnetic float inside the non-magnetic chamber rises or falls, magnetically coupling to the external bi-color flaps (red/white). The flaps rotate 180° to provide a clear, panoramic visual indication with no blind spots, allowing operators to safely and accurately read the liquid level from a distance.



- Certificate: ISO
- Standard: Conforms to NFPA 22, GB 50974-2014
- Feature: Side mounted (Standard configuration)
- Connection: Flanged as ANSI B16.5 Class 150 / Class 300, EN 1092-1 PN 16 / PN 25, etc.
- Temperature: -40°C to 350°C
- W. pressure: Up to 10 MPa



Main parts and feature

Magnetic float	SS 304 / SS 316L	**Float chamber**	SS 304 / SS 316L (Optional PTFE coating for corrosion resistance)
Indicator	Aluminum alloy housing, with acrylic cover and distinct scale markings	**Standard component**	Top vent and bottom drain valve (1/2" NPT) - available in ball valve, cock, or flanged ends
Applicable liquid	Water, oil, and liquids (Density: 0.5 to 2.0 g/cm³, Viscosity: ≤ 0.05 Pa·s)	**Optional component**	Steam jacket, electrical heating, vacuum jacket, reed switch transmitter, etc.

Available sizes

With transmitter	Measuring range	Measuring accuracy	Measuring media	Connection	Mounting	Ref. No.
/	0 ~ 6000 mm	± 10 mm	Water, etc.	FLG, DN20 ~ 80	Side	U9401 (ISO)
Yes	0 ~ 6000 mm	± 10 mm	Water, etc.	FLG, DN20 ~ 80	Side	U9402 (ISO)

Note:
1. The optional reed switch transmitter enables 4-20 mA remote signal output for DCS/PLC integration and automatic alarm control.
2. For measuring ranges exceeding 6000 mm, a multi-section combined chamber structure can be fabricated up to a total length of 20 m.