

According to the buoyancy principle, the float moves up and down with the rise and fall of the liquid level in the measuring tube. The permanent magnetic steel in the float drives the red and white turnover column to turn 180° through coupling. When the liquid level rises, the turnover column changes from white to red and when the liquid level falls, it changes from red to white, so as to realize the liquid level indication.



## Working Principle

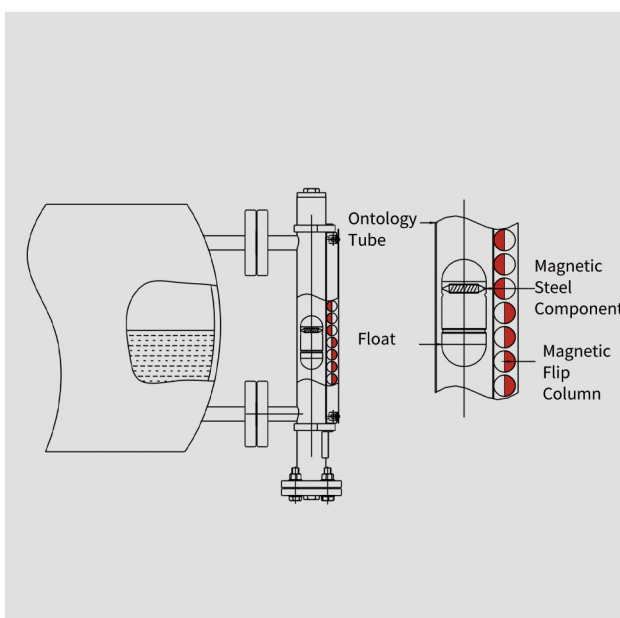
The MG series magnetic flap level meter is a new generation liquid level measuring instrument developed and successfully developed based on the advantages of similar products at home and abroad, combined with the actual situation in China. The magnetic float level meter utilizes the magnetic displacement generated by its internal magnetic float with the change of liquid level, causing the red and white magnetic flap column in the liquid level window to rotate accordingly to indicate the height of the liquid level. When the float rises, the magnetic flap column changes from white to red, and when the liquid level drops, it changes from red to white, with red always indicating the height of the liquid level.

## Features

- Large size scale, clear and easy to understand
- Simple structure, sturdy and reliable, stable operation
- Can install 4-20mA liquid level transmitter
- Can install liquid level switch sensor
- Multiple installation forms
- Multiple connection forms
- Equipped with a float stop spring to prevent damage to the float during feeding or venting

## Technical specifications


- Measurement Range: 30-8000MM
- Accuracy:  $\pm 10\text{MM}$
- Working pressure:  $\leq 2.5\text{MPa}$  (customizable for high pressure)
- Corrosion resistance:  $\leq 0.6\text{MPa}$
- Media density:  $\leq 0.45\text{G/CM}^3$
- Media temperature:  $-20\text{-}250^\circ\text{C}$  (special requirements can reach  $450^\circ\text{C}$ )
- On-site indication/remote transmission:  $-20\text{-}80^\circ\text{C}$
- Indicator type: engineering plastic color film (temperature  $> 200^\circ\text{C}$ , ceramic color film)
- Measuring tube material: SUS304/SUS306L/polypropylene PP
- Float material: SUS316L/polypropylene PP
- Medium viscosity:  $\leq 0.4\text{PA.S}$
- Optional installation: remote transmission/magnetic switch
- The factory connection flange dimensions for this product are DN20 and PN1.0, different specifications of flanges/threads can be customized according to customer requirements



## Magnetic Flap Level Meter

Model	MG100	MG200	MG300
Image			
Application	Liquid	Liquid	Liquid
Bypass pipe	Ø60mm*2	Ø76mm*6	Ø60mm*2
Material	304/316L	304/316L	304/316L
Process Connection	Flange/Thread	Flange/Thread	Flange/Thread
Process Temperature	-20~400°C	-20~200°C	-20~400°C
Process Pressure	-1~25BAR (-100~2500KPA)	-1~64BAR (-100~6400KPA)	-1~25BAR (-100~2500KPA)
Measuring Range	200 ~ 6000MM	200 ~ 6000MM	200 ~ 6000MM
Medium Viscosity	≤0.02Pa.S	≤0.02Pa.S	≤0.02Pa.S
Medium Density	≥0.6g/cm <sup>3</sup> (Customization)	≥0.6g/cm <sup>3</sup> (Customization)	≥0.6g/cm <sup>3</sup> (Customization)
Certification	CE / ATEX / ISO9001	CE / ATEX / ISO9001	CE / ATEX / ISO9001
Protection Level	IP65 / IP66 / IP67	IP65 / IP66 / IP67	IP65 / IP66 / IP67
Remarks	<p>The top form should refer to the top form in the structural diagram</p> <p>The joining form should refer to the connection form in the structural diagram</p> <p>The bottom form should refer to the bottom form in the structural diagram</p> <p>Optional components include magnetic switches and 4-20MA remote transmission (refer to the switch and remote transmission specifications)</p>	<p>The top form should refer to the top form in the structural diagram</p> <p>The joining form should refer to the connection form in the structural diagram</p> <p>The bottom form should refer to the bottom form in the structural diagram</p> <p>Optional components include magnetic switches and 4-20MA remote transmission (refer to the switch and remote transmission specifications)</p>	<p>The top form should refer to the top form in the structural diagram</p> <p>The joining form should refer to the connection form in the structural diagram</p> <p>The bottom form should refer to the bottom form in the structural diagram</p> <p>Optional components include magnetic switches and 4-20MA remote transmission (refer to the switch and remote transmission specifications)</p>

## Magnetic Flap Level Meter

Model	MG400	MG500	MG600
Image			
Application	Liquid	Liquid	Liquid
Bypass pipe	Ø50.5mm*2	Ø63mm*2	Ø60mm*5
Material	304/316L	PVC	304内衬PTFE
Process Connection	Flange/Thread	Flange/Thread	Flange/Thread
Process Temperature	-20~200°C	-20~60°C	-20~200°C
Process Pressure	-1~50BAR (-100~5000KPA)	-1~50BAR (-100~5000KPA)	-1~25BAR (-100~5000KPA)
Measuring Range	200 ~ 6000MM	200 ~ 5000MM	200 ~ 5000MM
Medium Viscosity	≤0.02Pa.S	≤0.02Pa.S	≤0.02Pa.S
Medium Density	≥0.6g/cm <sup>3</sup> (Customization)	≥0.85g/cm <sup>3</sup> (Customization)	≥0.6g/cm <sup>3</sup> (Customization)
Certification	CE / ATEX / ISO9001	CE / ATEX / ISO9001	CE / ATEX / ISO9001
Protection Level	IP65 / IP66 / IP67	IP65 / IP66 / IP67	IP65 / IP66 / IP67
Remarks	<p>The top form should refer to the top form in the structural diagram</p> <p>The joining form should refer to the connection form in the structural diagram</p> <p>The bottom form should refer to the bottom form in the structural diagram</p> <p>Optional components include magnetic switches and 4-20MA remote transmission (refer to the switch and remote transmission specifications)</p>	<p>The top form should refer to the top form in the structural diagram</p> <p>The joining form should refer to the connection form in the structural diagram</p> <p>The bottom form should refer to the bottom form in the structural diagram</p> <p>Optional components include magnetic switches and 4-20MA remote transmission (refer to the switch and remote transmission specifications)</p>	<p>The top form should refer to the top form in the structural diagram</p> <p>The joining form should refer to the connection form in the structural diagram</p> <p>The bottom form should refer to the bottom form in the structural diagram</p> <p>Optional components include magnetic switches and 4-20MA remote transmission (refer to the switch and remote transmission specifications)</p>

## Magnetic Flap Level Meter

Model	MG700	MG800	MG900
Image			
Application	Liquid	Liquid	Liquid
Display tube	Ø60mm*2	Ø63mm*3	Ø60mm*5
Float Catheter	Ø100mm*2(Customization)	Ø100mm*3	Ø100mm*3
Material	304	PVC	304 lined PTFE
Process Connection	Flange/Thread	Flange/Thread	Flange/Thread
Process Temperature	-20~400°C	-20~60°C	-20~200°C
Process Pressure	-1~25BAR (-100~2500KPA)	-1~50BAR (-100~5000KPA)	-1~25BAR (-100~5000KPA)
Measuring Range	200 ~ 3000MM	200 ~ 3000MM	200 ~ 5000MM
Medium Viscosity	≤0.02Pa.S	≤0.02Pa.S	≤0.02Pa.S
Medium Density	≥0.6g/cm <sup>3</sup> (customizable)	≥0.85g/cm <sup>3</sup> (customizable)	≥0.6g/cm <sup>3</sup> (customizable)
Certification	CE / ATEX / ISO9001	CE / ATEX / ISO9001	CE / ATEX / ISO9001
Protection Level	IP65 / IP66 / IP67	IP65 / IP66 / IP67	IP65 / IP66 / IP67
Remarks	The top form refers to the top form in the structural form diagram.The connection form refers to the connection form in the structural form diagram The bottom form refers to the bottom form in the structural form diagram Optional component: magnetic switch, 4-20mA remote transmission (referenceSwitch and remote transmission specification table)	The top form refers to the top form in the structural form diagram.The connection form refers to the connection form in the structural form diagram The bottom form refers to the bottom form in the structural form diagram Optional component: magnetic switch, 4-20mA remote transmission (referenceSwitch and remote transmission specification table)	The top form refers to the top form in the structural form diagram.The connection form refers to the connection form in the structural form diagram The bottom form refers to the bottom form in the structural form diagram Optional component: magnetic switch, 4-20mA remote transmission (referenceSwitch and remote transmission specification table)