

Product overview

The LMD top/bottom mounting magnetic flap level meter is a new generation of liquid level meter developed in the opening position on the underground container according to the user requirement. Compared to the LBC built-in liquid level meter, it's cheap and applicable to working in the flammable, explosive, toxic, strongly corrosive and volatile environment, falls into special type of LMZ side mounting magnetic flap level meter, is characterized by being safe and reliable, convenient observation and clear liquid level indication, widely used for the containers (such as oil depot, underground tank and groove) and the industries (such as food, chemical engineering and chemical fertilizer) and equipped with relevant accessories and has the function of alarm and controlling signal output.

Product features

- Measuring range (mm): 300~6000;
- Medium density (g / cm³): 0.5~2;
- Operating temperature (°C): -40-350;
- Pressure rating (Mpa): ≤32;
- Applicable to liquid medium with a large viscosity;
- The direction of observation of the display can be changed randomly;
- In case of hole opening on the improper side of the container and little space around the container, the liquid level meter can be installed in the upper part or lower part of the container.



Operating principle

The product is constituted by body, perble range (consisting of red and white magnetic small flaps), float, flange cover and liquid level transmitter. Its structure is shown in the figure. The operating principle is as follows: As for the perble range and transmitter outside the body, under the action of the float in the body (with directional magnetic source, and developed based on different media and pressures), the flap will turn with red/white shown and different liquid level heights indicated as the float moves, and the liquid level transmitter sends the liquid level signal to the control center for liquid level indication and control. The computer can be also used for centralized monitoring.

User notes

- Anti-corrosion type nominal pressure ≤1.0MPa.
- The liquid level indicator is with a certain blind area, thus the blind area value compensation shall be added when the liquid level height is read (when the liquid level meter of the factory leaves factory, the ruler scale zero position has migrated to the real value).
- The measurement scope of the liquid level meter doesn't exceed 5m, or the stability, reliability and fastness of the liquid level meter will be affected.
- The connecting flange is installed, and the liquid level meter leaving factory is manufactured pursuant to the common raised face dimensions (HG21592-97).
- The liquid level meter guard conduit and main conduit must be vertical

LMD top and bottom mounting magnetic flap level meter



- The connecting rod cannot be bent, but must be straightly inserted
- After the installation is over, the display nominal pressure shall be $\leq 1.0\text{MPa}$.

Product model selection

Model	Code											Description
LMD-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Top (bottom) mounting magnetic flap level meter
Function	A											Liquid level (omissible)
	B											Interface
Display mode	G											Top mounting flap (omissible)
	H											Bottom mounting flap
	J											Top mounting turning column
	K											Bottom mounting turning column
Structure form	R											Ordinary (omissible)
	T											Jacket
	V											Frost prevention
Pressure	***											Mpa
Operating temperature	B											Low temperature -40°C-150°C
	C											Normal temperature -20°C-150°C (omissible)
	D											High temperature 0°C-350°C
Connecting flange	R											DN100 (based on the equivalent pressure standard)
	S											DN125 (based on the equivalent pressure standard)
	T											DN150 (based on the equivalent pressure standard)
	X											Others
Length	***											mm
Medium density	***											g/cm3
Material	P											PP
	V											PVC
	F											Stainless steel lining polytetrafluoroethylene
	G											Stainless steel lining polytetrafluoroethylene
	H											Stainless steel lining PP
	I											Stainless steel lining PVC
	R											304 (omissible)
	S											321
	T											316L
	X											Others
Control	A											None (omissible)
	B											Upper limit (contact: 24V100A)
	C											Lower limit (contact: 24V100A)
	D											Upper/lower limit (contact: 24V100A)
	X											Others
Alarm	A											None (omissible)
	B											Upper limit (contact: 24V100A)
	C											Lower limit (contact: 24V100A)
	D											Upper/lower limit (contact: 24V100A)
	X											Others
Explosion proofing	I											Ordinary type (omissible)
	D											Intrinsic safety type
	E											Flame-proof type