MAGNETIC LEVEL GAUGE M-SERIES

The M series magnetic level gauge, level swtich consists of an un-magnetic chamber, magnetic float and with a built-in magnet strips, a vertical chamber connected a tank with two end. The float rised or falls in the chamber. It turns to the indicative strips to provide a indication of the tank level. This series also provide accessories such as switch and measuring sensor with converter turn to a 4~20mA (2-wires) DC output signal. To provide a liquid level control function.

Technical Data

Application for Chemical and Petrol Chemical process, Boilers and other industries.

Connection: From ½" to 3" flange type, JIS, ANSI, DIN rating available;

special size on request

Pressure Limited:

5 kg/cm² for Plastic chamber type (PVC, PP);

7 kg/cm² for Plastic chamber type (PVDF);

20 kg/cm² for Metal chamber type (Stainless Steel);

Up to 40 kg/cm² for Metal chamber type (Stainless Steel) on request

Temperature Limited:

0~50°C for Plastic chamber type (PVC, PP);

-30~100°C for Plastic chamber type (PVDF);

-20~150°C for Metal chamber type (Stainless Steel);

-20~300°C for Metal chamber type (Stainless Steel) on request (for this special type, if your operating temperature is \geq 250°C, the Sp.Gr. must be \geq 0.8)

Center to Center Length: maximum 5500mm

Accuracy: ±4mm (Transmitter type: standard ±12mm; and ±6mm on request)

Indicating Case Protection: IP66

Indicating Strips Material: Aluminum; Plastic (PBT); Brass w/painting available;

the colors are Red & White (standard), and other colors option available

Indicating Float Material: Aluminum

Specific Gravity: for standard type: $500~2900~kg/m^3$ (for special type with

high temp. \geq 250°C, the Sp.Gr. must be \geq 800kg/m³)

Indicating Gauge Orientation Adjustable

Chamber Size: ø50 or ø60mm HART® Communication: Available

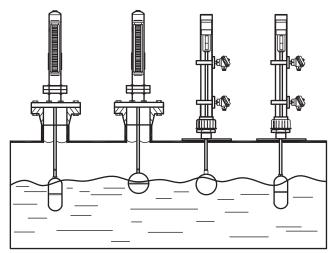
Two Wire Transmitter with HART® Protocol:

-Galvanic Isolation

-Suitable for application in SIL 2 installations

Installation

(A) Top Mounting



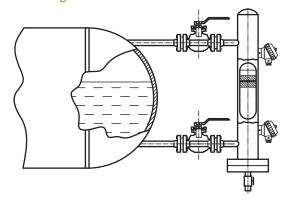
-45

-30

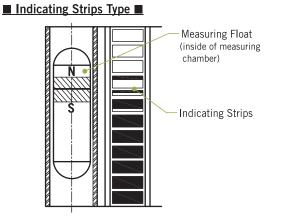
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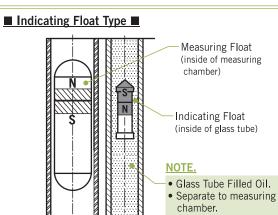
(€ (PG)

(B) Side Mounting



Principle





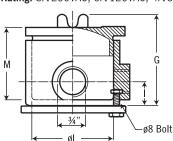


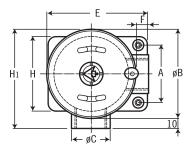
Switch Function Micro Switch Type

Type: MS-1: Weather Proof Type / MWS: Explosion Proof Type

Case Housing Material: Aluminum alloy
Protection Class: Weather Proof: IP66 / Explosion Proof: ITRI/Taiwan, Ex d IIB + H2 T6

Micro Switch: 1 x SPDT; 2 x SPDT (one setting point) available Rating: 3A/250VAC, 5A/125VAC, 4A/30VDC





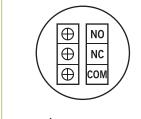


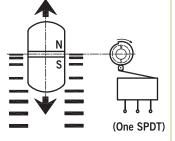


MS-1

MWS

Wire Drawing



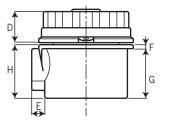


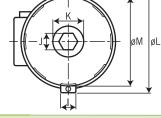
(Two	SPDT)

(1110 01 01)								
NC	6							
NO	5							
COM	4							
NC	3							
NO	2							
COM	1							

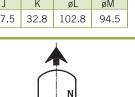
Option: 2 SPDT switch on request

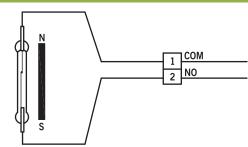
Dimensions unit:mm Termincal Block Type (on request) øС øΒ G Н Н1 M Α Ε øL MS-1 68 100 38 110 13 80 92 100 24 88 68 4x4 mm²





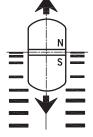
Туре		Dimensions														
Турс	D	Е	F	G	Н	- 1	J	K	øL	øΜ						
MWS	33	13.8	4.2	52.8	57	13.5	17.5	32.8	102.8	94.5						





Reed Switch Type (SPST)

Alarm Switch: Form A N.O. Type Bistable Switch Rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40mA



Transmitter Type

Potentiometer I/P

Output Signals: 4~20mA DC,

Load resistance R_L (max)=(Vs-10) x 50Ω (2-wire)

Input Range: 100Ω to $45K\Omega$ (3-wire)

Output Adjustment Range: Zero adjustment 0~15%

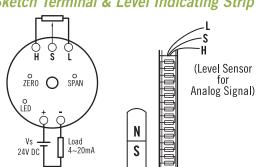
Accuracy: ±0.1% F.S (at 23°C) Linearity: ±0.1% F.S Supply Voltage: 10~30V DC Temp. Coefficient: ±0.02% / °C Operating Temp.: -5~+70 / °C Operating Humidity: 0~90% RH

Terminal: DIN Type

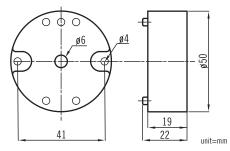
Installation: Head and Wall Mounting Case Material: Nylon 6 resin (Black)

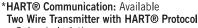
Weight: about 50 grams

Sketch Terminal & Level Indicating Strip



Dimensions





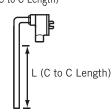
- Galvanic Isolation
- Suitable for application in SIL 2 installations

GL-T CE DC 10~30V/4~20mA (€

GL-T

Level Sensor Unit

Model: GL-T-S-T-R-L (C to C Length)



Features

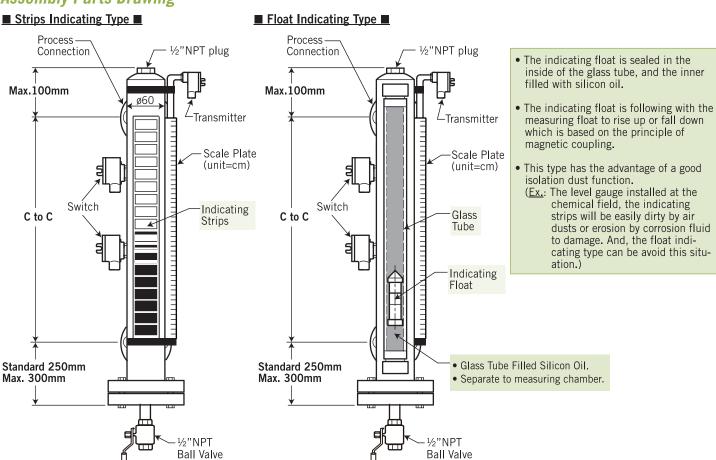
- ISO 9001 and CE certificate
- High immunity to external noise
- LED indication and DC power polarity protection
- High reliability, lasting durability and low cost

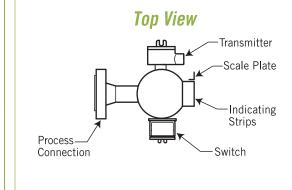
Application

- Position of valve, damper and other devices

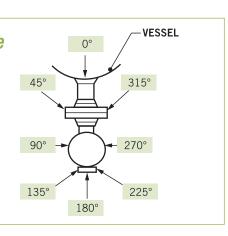


Assembly Parts Drawing



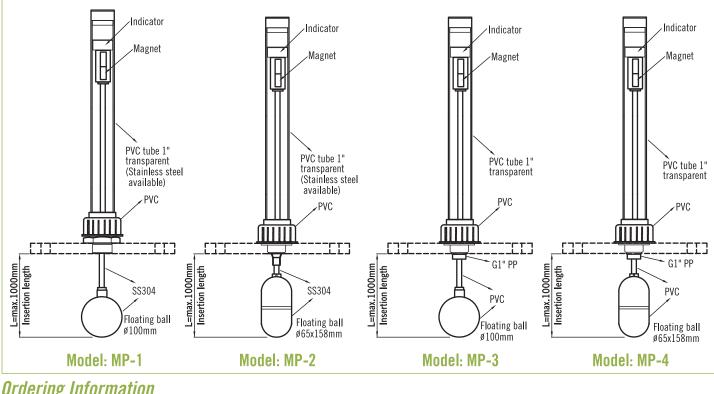


Orientations: Reference for Element (Indicator Strips, Transmitter, Switch)



Ordering Information

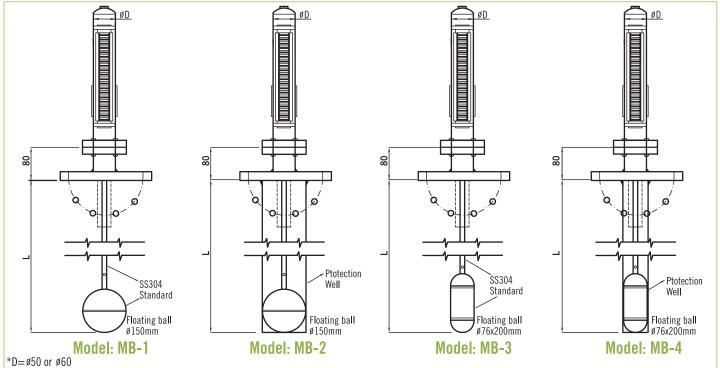
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M Type	Code	Model																		
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	MT	Transm	nitter Typ	e Indicat	ting + 4~2	20mA		MTH	Indicat											
		Code	Conne																	
		А	1/2"	В	3/4"	С	1"	D	1½	." E	2"		F	3"	G O	ption				
			Code													 				
			Oout		Connection Rating (1) PTM (2) NPTM (3) JIS 10K (4) JIS 20K (5) ANSI 150# (6) ANSI 300# (7) PN16 (8) PI											(Q) Option				
									5 ZUN (:)) ANSI 1	.50# (6)	ANSI S	00# (7	/) FN10 (5) FIN40	(9) Option				
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						Code	Mater	ial of In	dicating	Strips (o	r Float)									
						Α	Plastic	(PBT)		В	Aluminum	ı	С	Brass	w/paintir	ng				
						F	Alumii	num Flo	at (only f	or indicat	ing float	type)	'							
							Code	Swite	h Type											
							1	_	Switch	2	Micro Sv	witch	3	Option	0	Without Switch				
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											1	Weath	ner Prod	of, IP66						
											2	Explo	losion Proof							
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Ordering Information

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		А	3"		В	4"	С		Optio	n																	
			Cod	de	Conne	ction Ra	ting																				
					(1) PTI	M (2) N	(2) NPTM (3) JIS 10K (4) ANSI 150# (5) PN16																				
					Code	Material of Wetted Parts																					
					А	SS304	В	B SS316		С	SS316L	D	PVC	Е	PP	F	PE	G	PVDF	Н	Option						
						Code	Mat	eria	l of Inc	licating	Case																
						1	PVC	Tul	be Trans	sparent	t 2 Blind SS304 3 B				Blind SS	316											
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							1		Reed S	Switch	2	Micro S	Switch		3 (Option	0		Without S	witch							
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MP Type																Comple	ete Ord	ering	Code								





Ordering Information

