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 $4\sim20\text{mA}$ (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 $\frac{1}{2}$ " 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), and up to 50 kg/cm² on request;

Special option: up to 100 kg/cm² for Titanium float

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 Material: SS304 standard;

or SS304+PC (Hermetically Sealed) for protection class IP68 on request **Indicating Strips Material:** Plastic (PBT); Brass w/painting available; the colors are Red & White (standard), and other colors option available

Switch Track Material: Aluminum Indicating Float Material: Aluminum

Specific Gravity: for standard type: 500~2900 kg/m³ (for special type with

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

Indicating Gauge Orientation Adjustable

Chamber Size: ø50 or ø60mm HART® Communication: Available

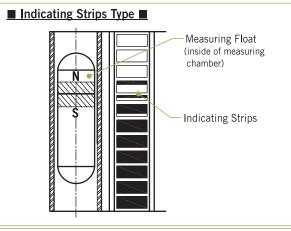
Two Wire Transmitter with HART® Protocol:

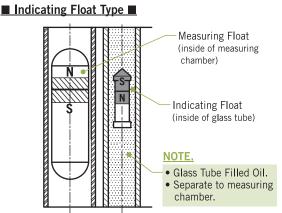
HART COMMUNICATION PROTOCOL

-Galvanic Isolation

-Suitable for application in SIL 2 installations

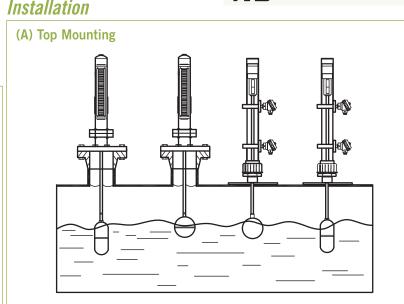
Principle



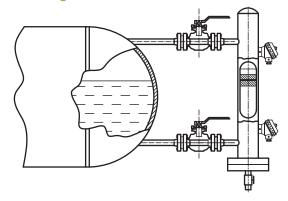




Switches with UL & CSA Recognized and File No. E41515.



(B) Side Mounting





Wire Drawing

 \oplus NO

 \oplus NC

 \oplus

Switch Function

Micro Switch Type

Type: MS-1: Weather Proof Type, IP66

MWS: Explosion Proof Type, (Taiwan Explosion Proof Certification): Ex d IIB + H2 T6 Gb

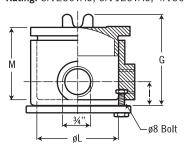
Case Housing Material: Aluminum alloy for MS-1 & MWS. (SS316 for MWS available)

Dimensions

G

Η Н1

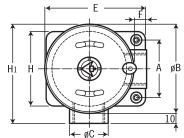
Micro Switch: 1 x SPDT; 2 x SPDT (one setting point) available Rating: 3A/250VAC, 5A/125VAC, 4A/30VDC



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unit:mm Termincal Block

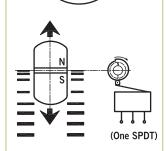
(on request)

4x4 mm²

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MWS

(Two SPDT) NC 6 NO 5 COM 4 NC 3 NO 2

TD0400TJ 工電(2016)第00114號 (ITRI)2017第07-00105號

COM 1

Option: 2 SPDT switch on request

GL-T

SPAN

CE

DC 10~30V/4~20m/

GL-T

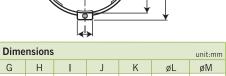
G

Type

MS-1

Type

MWS



32.8

17.5

Reed Switch Type (SPST)

D

33

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

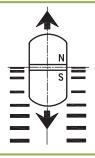
13.8

4.2

52.8

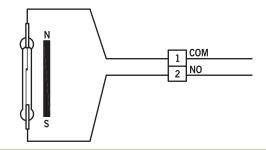
57

13.5



102.8

94.5



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 Ω (3-wire)

Output Adjustment Range: Zero adjustment 0~15%

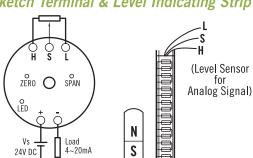
Accuracy: ±0.1% F.S (at 23°C) Linearity: ±0.1% F.S Supply Voltage: 10~30V DC Temp. Coefficient: ±0.02% / °C Operating Temp: -5~+70 / °C Operating Humidity: 0~90% RH

Terminal: DIN Type

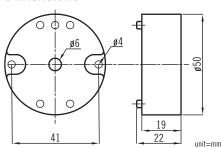
Installation: Head and Wall Mounting Case Material: Nylon 6 resin (Black)

Weight: about 50 grams

Sketch Terminal & Level Indicating Strip



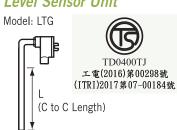
Dimensions



*HART® Communication: Available Two Wire Transmitter with HART® Protocol

- Galvanic Isolation
- Suitable for application in SIL 2 installations

Level Sensor Unit



Features

- ISO 9001 and CE certificate
- High immunity to external noise

GME

ZERO

CE

- LED indication and DC power polarity protection
- High reliability, lasting durability and low cost

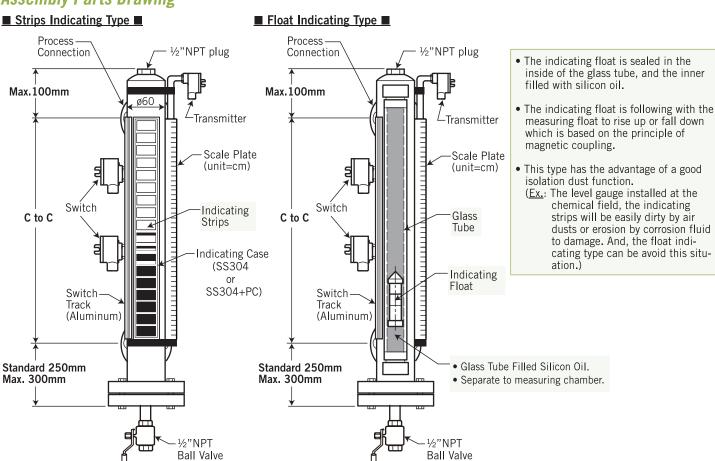
Application

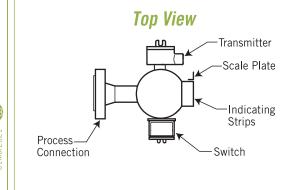
- Position of valve, damper and other devices



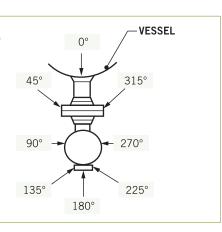
Assembly Parts Drawing

WWW.NEW-FLOW.COM ◆ TEL: 886-7-8135500 ◆ FAX: 886-7-8225588 ◆ Email: info@new-flow.com

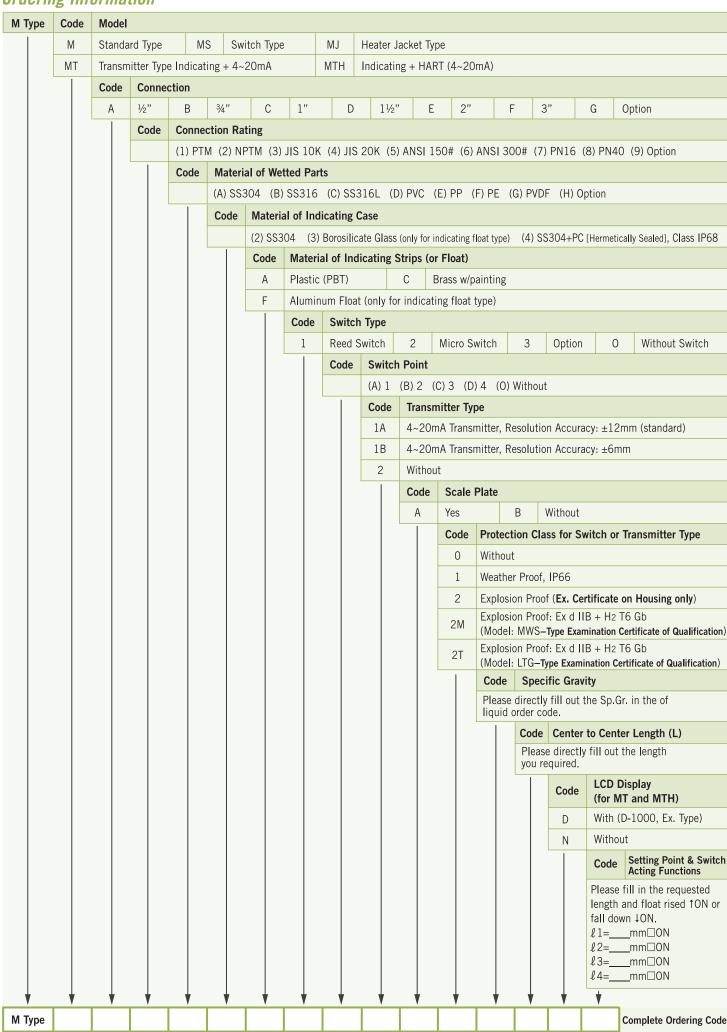


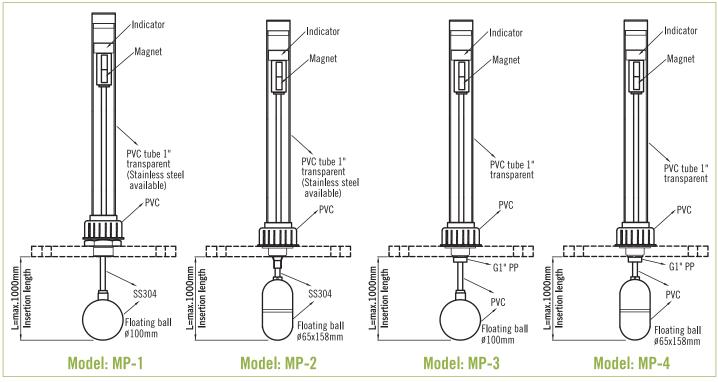


Orientations: Reference for Element (Indicator Strips, Transmitter, Switch)



Ordering Information

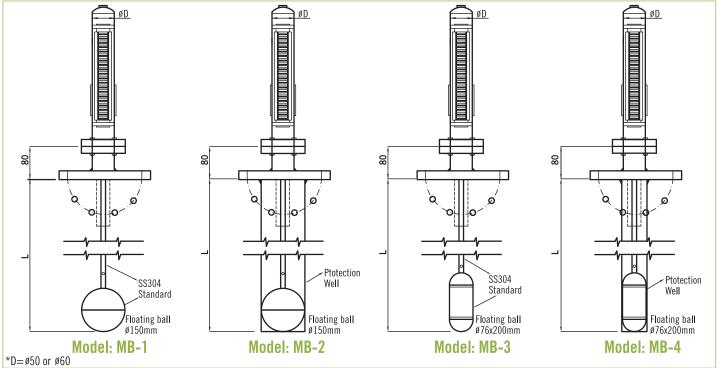




Ordering Information

MP Type	Code	Model																				
T		MP-1	MF	·-2	MP-3	MF	9-4															
		Code	Conne	ction																		
		А	3"	В	4"	С	Optio	n														
			Code	Conne	ction Rat	ting																
				(1) PT	M (2) NF	°TM (3)	JIS 10K	(4) AN	SI 150#	(5) PN1	16											
				Code	Materia	l of We	tted Par	ts									_					
				А	SS304	В	SS316	С	SS316L	D	PVC	Е	PP	F	PE	G	PVDF	Н	Option			
					Code	Mater	ial of Inc	licating	Case													
					1	PVC To	ube Trans	sparent	2	Blin	d SS30	4	3	Blind SS316								
						Code	Switch	туре														
						1	Reed S		2	Micro S	witch	3	Ор	tion	0		Without S	witch				
							Code		n Point													
									(B) 2 () With	out									
								Code		nitter Ty												
								1A									(standard))				
								1B 2	4~20n Withou	nA Trans	mitter, i	Resolu	ution Ac	ccurac	cy: ±6m	m						
									Code	Scale	Dista											
									A	Yes	riate	В	With	out								
										Code	Swite		Transm		Housin	σ						
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MP Type														inhie	ie Orue	ııııg	Coue					





Ordering Information

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		A	3"	В	Δ"	4" C Option														
		1	Code				Ори	011												
			Code Connection Rating (1) JIS10K (2) JIS 20K (3) ANSI 150# (4) ANSI 300# (5) PN16 (6) PN40 (7) Option																	
				Code								3 (0) 1 1	1110 (7	, option						
				A	SS304	В	SS316		SS316L	D	PVC	E PF) F	PE	G	PVDF	Н	Opti	ior	
				1	Code			dicating			1 10			' -	<u> </u>	1 401		Орг	01	
					2	SS304		4	SS304+F	C (class	IP68)									
						Code	Mate	rial of Ir	ndicating	Strips										
						А	Plasti	c (PBT)	С	Bras	s w/pain	ting								
							Code		h Type											
							1		Switch	2	Micro S	witch	3	Optio	n	0	Witho	out Swit	ch	
					Code Switch Point							.) 4 (0)	O) W:+L							
									Code	1 (B) 2 (C) 3 (D) 4 (O) Without de Transmitter Type										
									1A				Resoluti	ion Accu	racv. +	icy: ±12mm (standard)				
									1B								i (Stairt	uaiu)		
									2	4~20mA Transmitter, Resolution Accuracy: ±6mm Without										
										Code	Scale	ale Plate								
										А	Yes	B Without								
											Code	Switc	h or Tra	ansmitte	er Housing					
												(0) Wi	ithout (1) Weath	er Proc	f, IP66	(2) E	xplosion	Pr	
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▼ B Type	*	*	*	*	V	*	V	*	*	V	*	*	*	*] c	1-4-	Oudou	ing Cod		