

MAGNETIC LEVEL GAUGE M-SERIES

The M series magnetic level gauge, level switch consist of an un-magnetic chamber, magnetic float and with a built-in magnet strips, a vertical chamber connected to a tank with two end. The float rises or falls in the chamber. It turns to the indicative strips to provide an indication of the tank level.

This series also provides 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 1/2" to 3" flange type, JIS, ANSI, DIN rating available, special size on request

Pressure limited: 10 kg/cm² for plastic material type (P.V.C, P.P, PVDF)
20 kg/cm² for standard type
up to 40 kg/cm² on request

Temperature limited: 0~50°C for plastic chamber type
-40~150°C for standard type
-40~250°C for special type

Center to center length: Maximum 5500mm

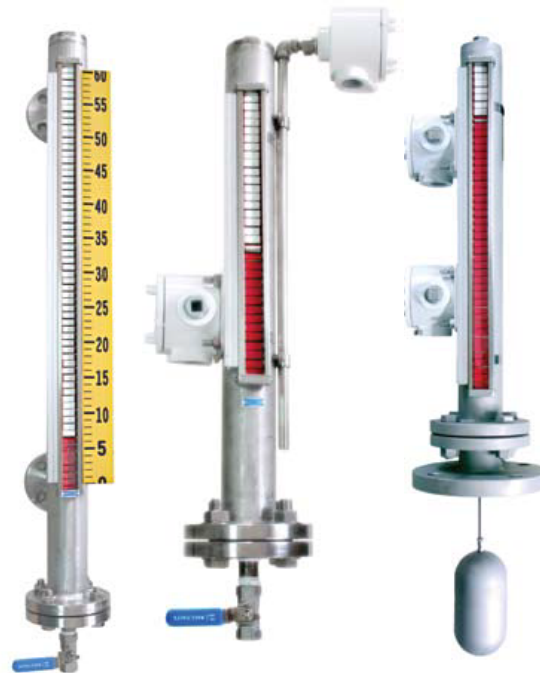
Accuracy: ±4mm (Transmitter: ±12mm standard; ±6mm on request)

Indicating strips: Aluminum, Plastic (PBT) available, the colors are red and white

Specific gravity: 500~2900 kg/m³

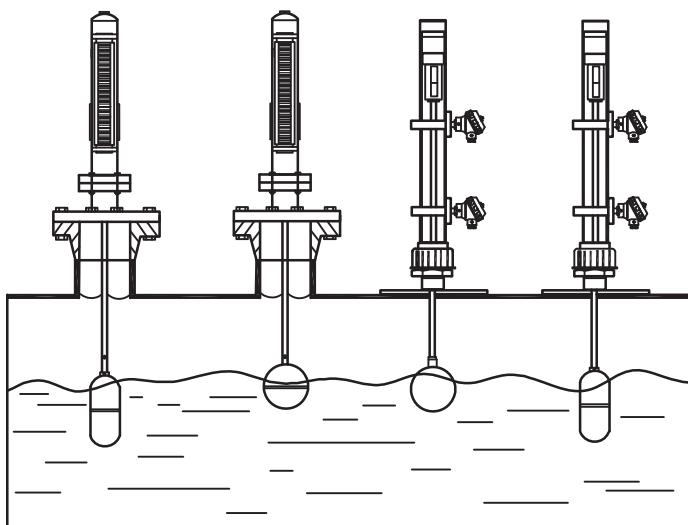
Indicating gauge orientation adjustable

Chamber size: ø50 or ø60

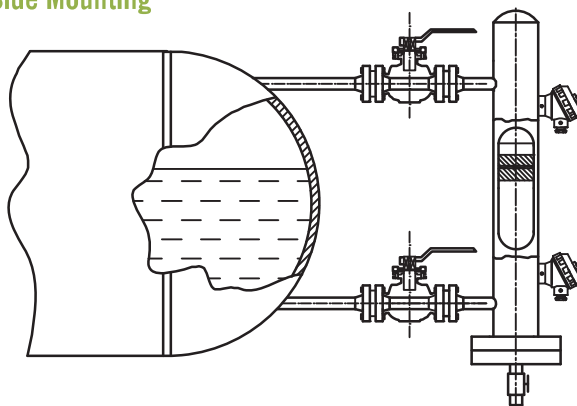


Installation

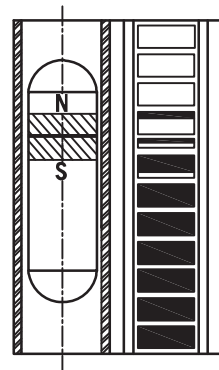
(A) Top Mounting



(B) Side Mounting



Principle



Switch Function

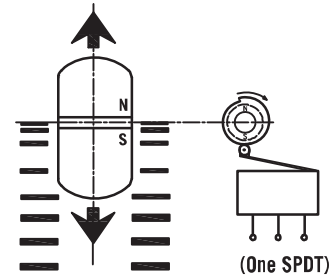
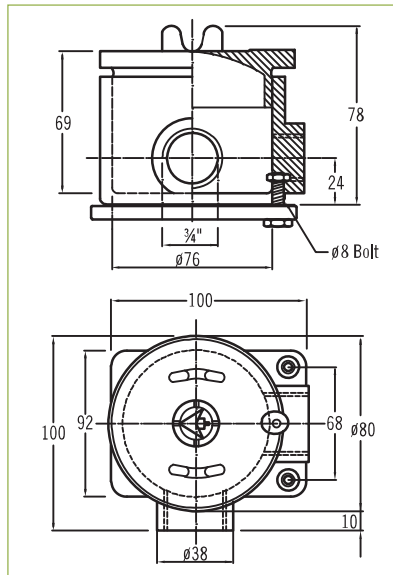
Micro Switch Type

Protection: Explosion proof, EExdIIC6 IP65
Micro Switch: SPDT; SPDT x 2 available
Rating: 3A/250VAC, 3A/30VDC, 0.4A/125VDC



Wire Drawing

Dimensions



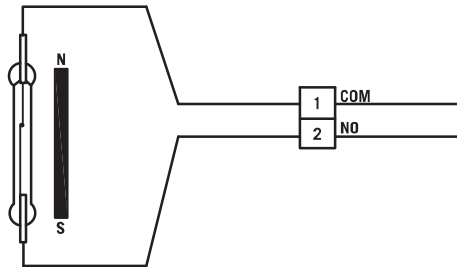
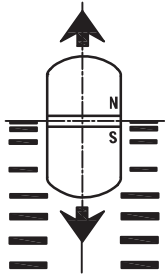
Option: 2 SPDT switch on request

NC	6
NO	5
COM	4
NC	3
NO	2
COM	1

(Two SPDT)

Reed Switch Type

Rating: 250VAC 1A SPDT



Transmitter Type

Potentiometer I/P

Output Signals: 4~20mA DC, Load resistance R_L (max)=(V_s-10)x50 Ω

Input Range: 100 Ω to 45K Ω (3-Wire)

Output Adjustment Range: Zero adjustment 0~15%; Span adjustment -20% ~ +60% FS

Accuracy: $\pm 0.1\%$ F.S (at 23°C)

Linearity: $\pm 0.1\%$ F.S

Supply Voltage: 10~30V DC

Temp. Coefficient: $\pm 0.02\%/^{\circ}\text{C}$

Operating Temp.: -5 ~ +70/ $^{\circ}\text{C}$

Operating Humidity: 0~90% RH

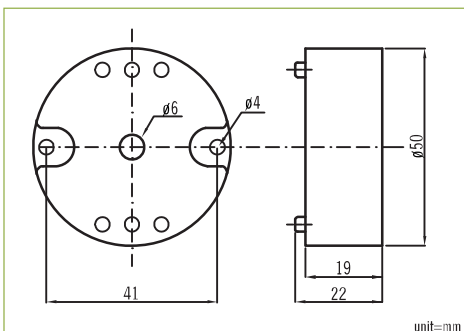
Socket and Terminal: Screw terminals (stainless steel screw)

Installation: Head and wall mounting

Case Material: Nylon 6 resin (Black)

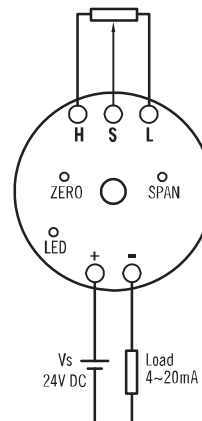
Weight: about 50 grams

Dimensions



GL-T

Socket And Terminal



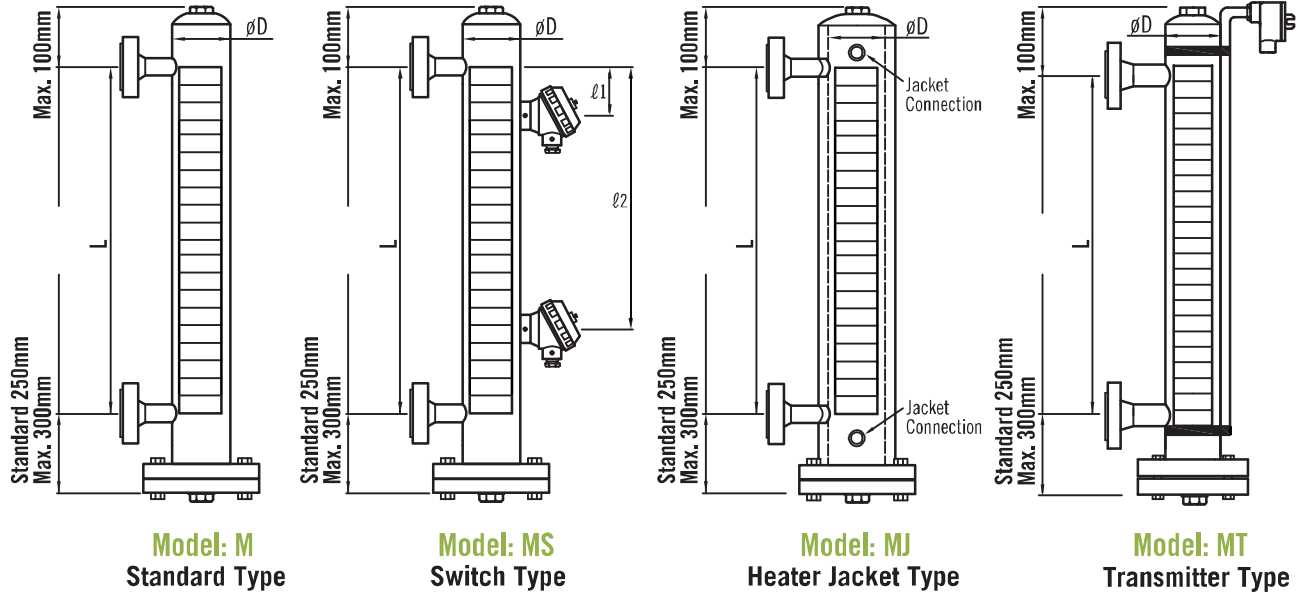
Features

- 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

M Standard Type—Side Mounting Series

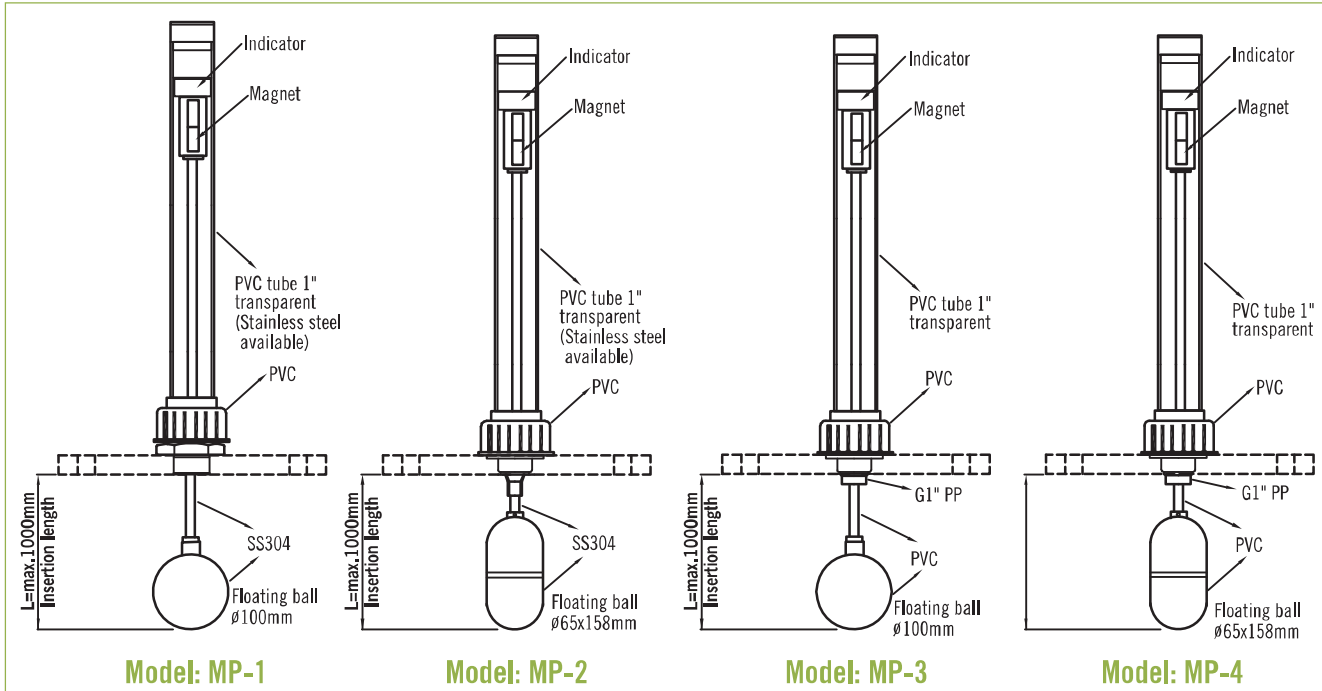


*D=ø50 or ø60

Ordering Information

M Type	Code	Model
	M	Standard type
		MS Switch type
		MJ Heater jacket type
		MT Transmitter Type
		Code Connection
	A	1/2" B 3/4" C 1" D 1 1/2" E 2" F 3" G Option
		Code Connection Rating
		(1) PTM (2) NPTM (3) JIS 10K (4) JIS 20K (5) ANSI 150# (6) ANSI 300# (7) PN16 (8) PN40 (9) Option
		Code Material of Wetted Parts
	A	SS304 B SS316 C SS316L D P.V.C E P.P F PE G PVDF H Option
		Code Material of Indicating Case
	1	Aluminum 2 SS304
		Code Material of Indicating Strips
	A	Plastic B Aluminum C Brass
		Code Switch Type
	1	Reed Switch 2 Micro Switch 3 Option 0 Without Switch
		Code Switch Point
		(A) 1 (B) 2 (C) 3 (D) 4 (0) Without
		Code Transmitter Type
		(1) 4~20mA Transmitter (2) Without
		Code Scale Plate
	A	Yes B Without
		Code Switch or Transmitter Housing
		(1) Weather proof IP65 (2) Explosion proof
		Code Specific Gravity
		Please directly fill out the Sp. Gr. in the of liquid order code.
		Code Setting Point & Switch Acting Functions
		Please fill in the requested length and float rised ↑ ON or fall down ↓ ON
		ℓ1= ___mm ☐ ON ℓ2= ___mm ☐ ON
		ℓ3= ___mm ☐ ON ℓ4= ___mm ☐ ON
M Type		Complete Ordering Code

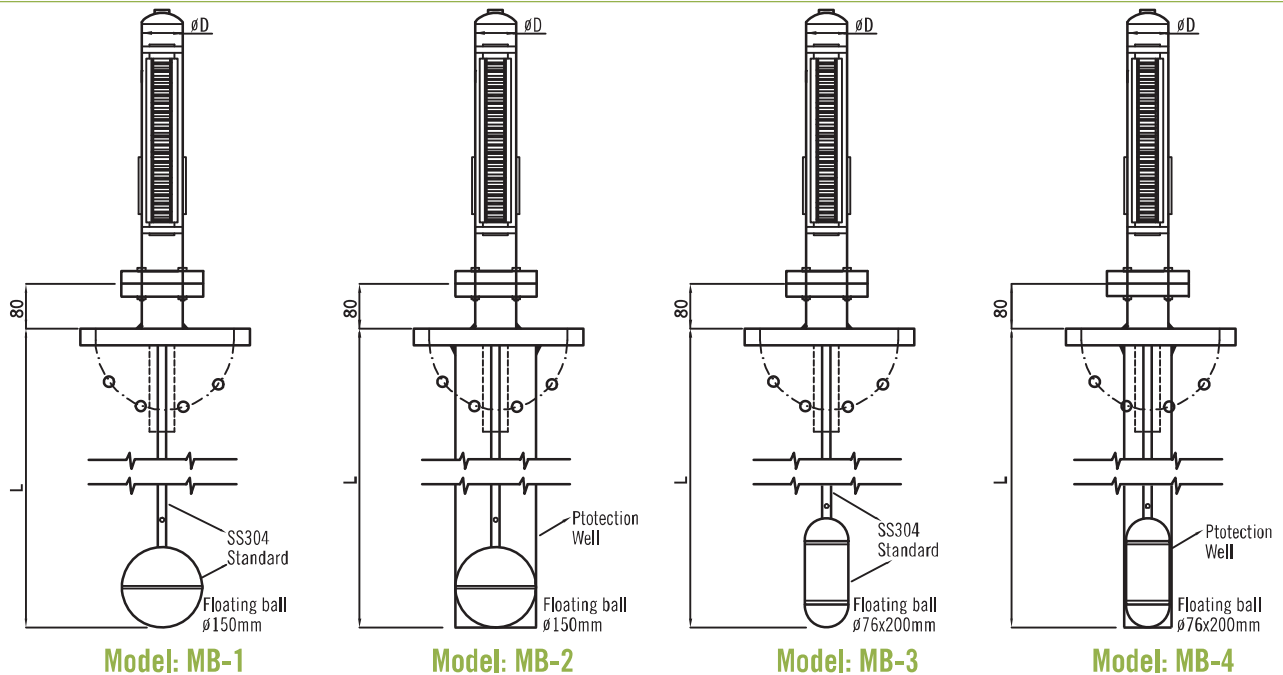
MP Type—Top Mounting Transparent Series



Ordering Information

MP Type	Code	Model
		MP-1 MP-2 MP-3 MP-4
		Code Connection
	A	3" B 4" C Option
		Code Connection Rating
		(1) PTM (2) NPTM (3) JIS 10K (4) ANSI 150# (5) PN16
		Code Material of Wetted Parts
	A	SS304 B SS316 C SS316L D P.V.C E P.P F PE G PVDF H Option
		Code Material of Indicating Case
	1	P.V.C tube transparent 2 Blind SS304 3 Blind SS316
		Code Switch Type
	1	Reed Switch 2 Micro Switch 3 Option 0 Without Switch
		Code Switch Point
		(A) 1 (B) 2 (C) 3 (D) 4 (0) Without
		Code Transmitter Type
		(1) 4~20mA Transmitter (2) Without
		Code Scale Plate
	A	Yes B Without
		Code Switch or Transmitter Housing
		(1) Weather proof IP65 (2) Explosion proof
		Code Specific Gravity
		Please directly fill out the Sp. Gr. in the of liquid order code.
		Code Setting Point & Switch Acting Functions
		Please fill in the requested length and float rised ↑ ON or fall down ↓ ON
		ℓ1= _____mm ☐ ON ℓ2= _____mm ☐ ON
		ℓ3= _____mm ☐ ON ℓ4= _____mm ☐ ON
MP Type		Complete Ordering Code

MB Type—Top Mounting Series



*D=ø50 or ø60

Ordering Information

MB Type	Code	Model
		MB-1 MB-2 MB-3 MB-4
		Code Connection
	A	3" B 4" C Option
		Code Connection Rating
		(1) JIS 10K (2) JIS 20K (3) ANSI 150# (4) ANSI 300# (5) PN16 (6) PN40 (7) Option
		Code Material of Wetted Parts
	A	SS304 B SS316 C SS316L D P.V.C E P.P F PE G PVDF H Option
		Code Material of Indicating Case
		1 Aluminum 2 SS304
		Code Material of Indicating Strips
	A	Plastic B Aluminum C Brass
		Code Switch Type
	1	Reed Switch 2 Micro Switch 3 Option 0 Without Switch
		Code Switch Point
		(A) 1 (B) 2 (C) 3 (D) 4 (0) Without
		Code Transmitter Type
		(1) 4~20mA Transmitter (2) Without
		Code Scale Plate
	A	Yes B Without
		Code Switch or Transmitter Housing
		(1) Weather proof IP65 (2) Explosion proof
		Code Specific Gravity
		Please directly fill out the Sp. Gr. in the of liquid order code.
		Code Setting Point & Switch Acting Functions
		Please fill in the requested length and float rised ↑ ON or fall down ↓ ON
		ℓ1= ____mm ☐ ON ℓ2= ____mm ☐ ON
		ℓ3= ____mm ☐ ON ℓ4= ____mm ☐ ON
MB Type		Complete Ordering Code