

An Expertise in Industrials Solutions

TNM Magnetic Level Transmitter



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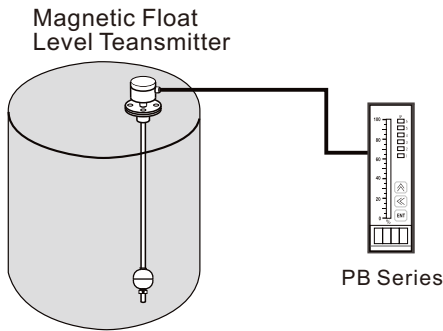
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INTRODUCTION

WORKING PRINCIPLE

The "Magnet Float Level Transmitter" is composed of a float and sensing rod (shown below). As the float is raised or lowered by the liquid level, the sensing rod will induce a resistance output, which is directly proportional to the liquid level. The Magnet Float Level Transmitter is a sturdy, reliable and durable device that is applicable to most industries.



FEATURES

- Optional TAB-2100 (see p4) to produce a 0/4~20mA signal
- Optional PB series bargraphic display scaling panel meter for level control and display
- Sensing elements are protected with a plastic package for safety in use and transport.
- High performance and reliable electric circuit modular design (fig.2)
- Explosion Proof certificate available
- Marine certificate: ABS, DNV, BV, LR, GL available

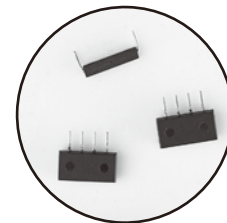


Fig.1
Sensing Element

APPLICATIONS

- Waste water treatment
- Turn-key facilities
- Electric power plants
- Shipping vessels
- Hydraulic facilities
- Chemical industrial equipment
- Petrochemical industries
- Hot coal boiler
- e.g. diesel engine generators, motor
- oil meters, oil material storage tanks

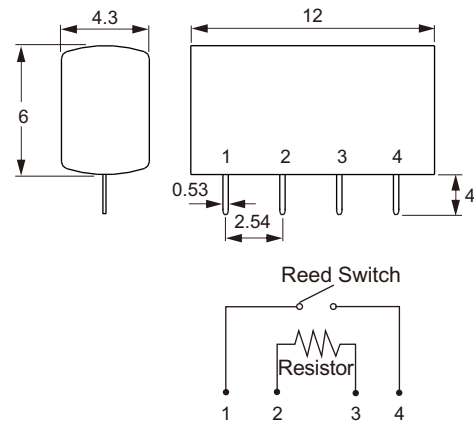
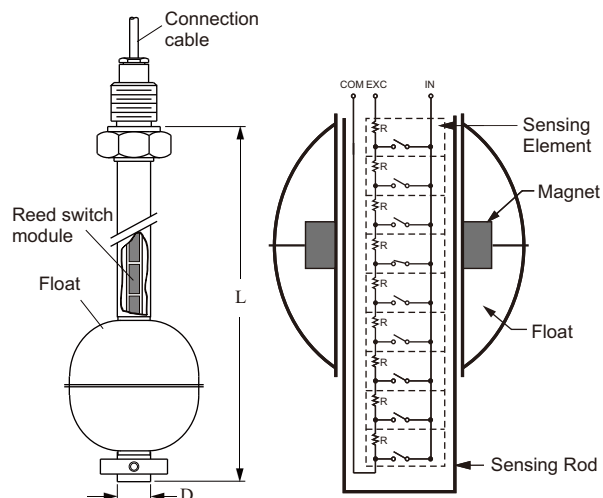


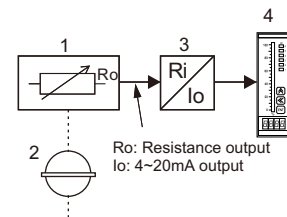
Fig.2
Sensing Element Size

CONSTRUCTION



SCHEMATIC DIAGRAMS

1. Sensing Rod
2. Float
3. Transducer
4. Display Unit



HOUSING DIMENSIONS

B

Material : Aluminum
Enclosure : IP65
Max.Temp.: -20°C ~200°C

C

Material : PP+Fiber
Enclosure : IP65
Max.Temp.: -20°C ~80°C

D

Material : Aluminum
Enclosure : IP65
Max.Temp.: -20°C ~200°C

E

Material : Aluminum
Enclosure : IP65
Max.Temp.: -20°C ~200°C

G

Material : PC
Enclosure : IP65
Max.Temp.: -20°C ~80°C

K Explosion-proof

Material : Aluminum
Enclosure : CESI 03 ATEX 108
ATEX II 2G Ex d IIB T6
Max.Temp.: -20°C ~100°C

N

Material : SUS316
Enclosure : IP65
Max.Temp.: -20°C ~200°C

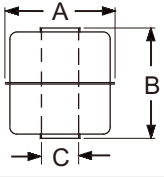
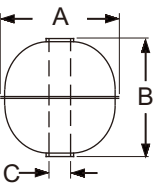
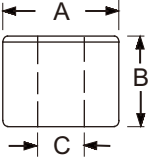
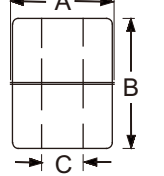
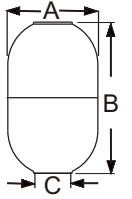
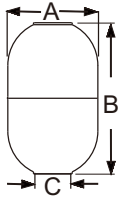
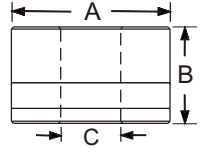
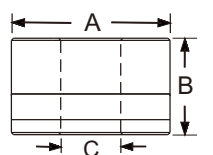
X

Material : Aluminum
Enclosure : IP65
Max.Temp.: -20°C ~100°C

A

Material : Aluminum
Enclosure : IP67
Max.Temp.: -40°C ~80°C

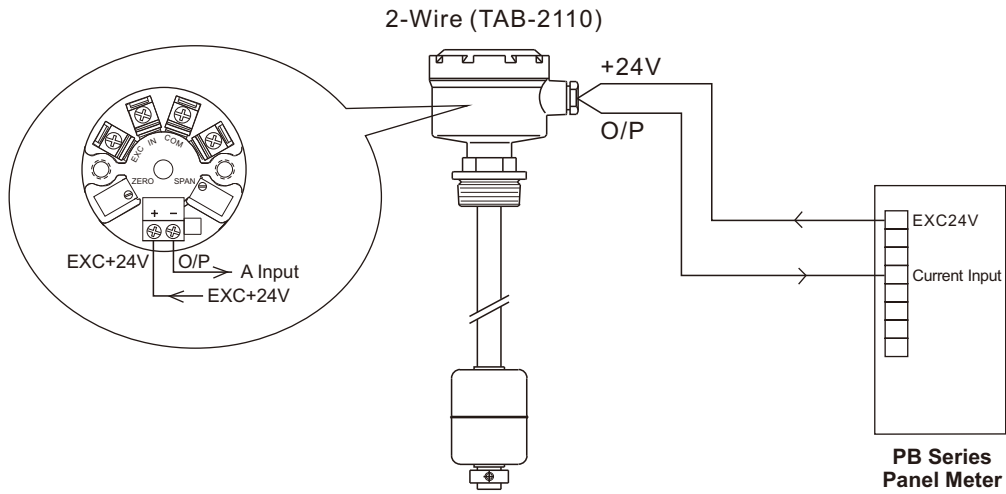
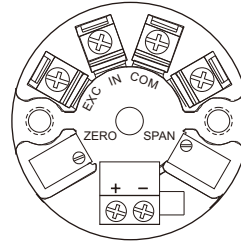
FLOAT SPECIFICATIONS

Dimension	Type	AxBxC(mm)	S.G.	Max. Pressure (kg/cm ²)	Material	Max. Temp. (°C)	Approx. Weight (g)
	S3	45x55x15	0.65	12	SUS 316	200°C	37.6
	S6	75x108x19	0.5	10	SUS 304	200°C	165
	S4	52x52x15	0.55	30	SUS 316	200°C	33.4
	S5	75x73x19	0.61	30	SUS 304	200°C	105
	S8	100x100x20	0.5	15	SUS 304	200°C	249.7
	S9	150x150x30	0.45	15	SUS 304	200°C	534
	P3	48x45x18.5	0.6	5	PP	80°C	35.5
	F4	48x62x18	0.75	5	PVDF	120°C	65.3
	R6	72x118x28	0.62	22.5	SUS316	200°C	193
	RF	72x118x28	0.95	22.5	SUS316	200°C	296
	P9	74x45x28	0.64	5	PP	80°C	111
	PI	74x45x28	0.96	5	PP	80°C	165

TRANSDUCER

MODEL: TAB-2110 (TAXAA1X) Transducer

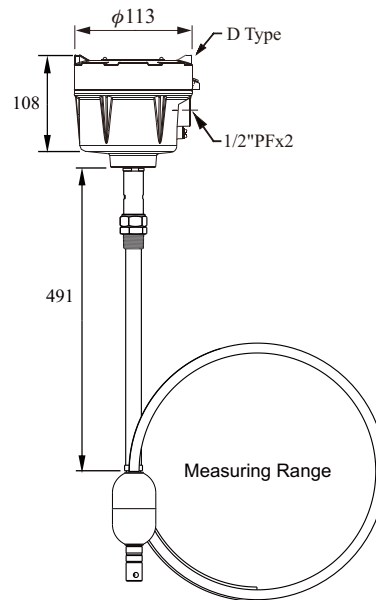
- Power Supply : 12~36Vdc
- Output Current : Loop power 4~20mA
- Load Resistance : $RL(Max)=50(Vs-8)$
- Ambient Temperature : -40~80°C
- Ambient Humidity : 0~80% RH
- Accuracy : $\pm 0.1\%(25^{\circ}C)$
- Temperature Effect : 0.01%F.S./°C
- Adjustment Range : Span Adjustment 20% FS
Zero Adjustment 5% FS



FLEXIBLE MODEL DIGITALE DISPLAY TYPE / ECONOMICAL TYPE

MODEL: Flexible Magnetic Float Level Transmitter (Economical type)

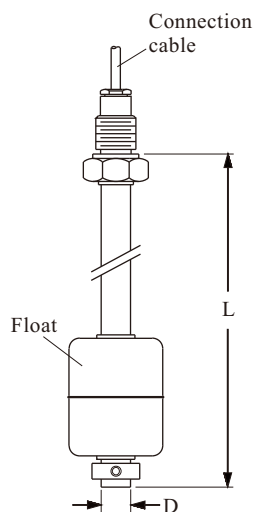
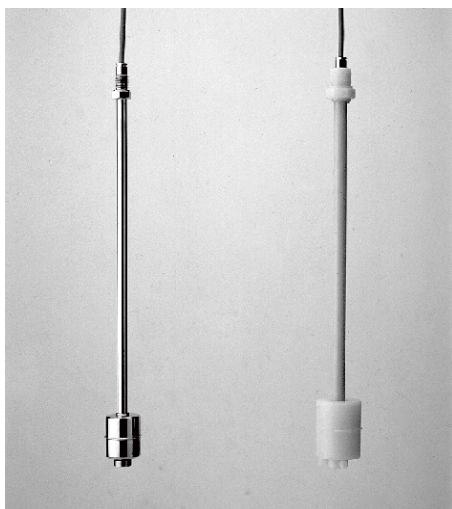
Power Supply	: 12~36Vdc
Measuring range	: 3000mm~30000mm
Analog output	: 4~20mA loop power
Resolution	: 12.7mm
Load impedance	: RL (Max.) = 50 (Vs-8)
Accuracy	: $\pm 0.1\%$ (25°C)
Ambient temp.	: -40~80°C
Operating temp.	: -40~80°C
IP rating	: IP65



FEATURE

- Cover protection for reed module, to prevent any damage during transportation.
- Not effect by temperature and pressure variaion.
- Easy to record and set up with digital display.
- Easy to install, need not to do periodic calibration and maintenance.

ECONOMICAL



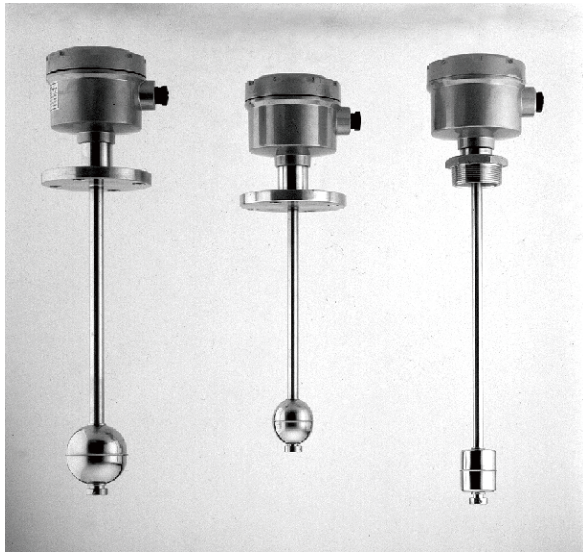
● SPECIFICATIONS

Connection Cable: Silicon cable 3C x 1M
Output: 3-wire resistance output
Total Resistance: 1MΩ (Max.)

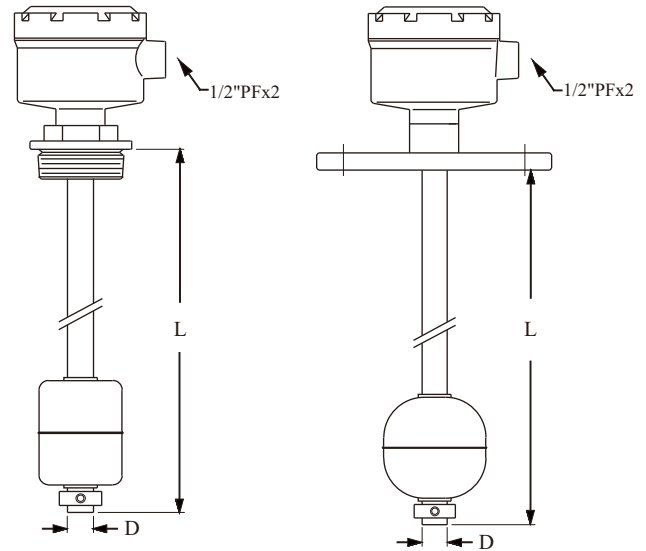
Operating Temp.: PP tube -10 °C ~ 80 °C
 PVDF tube -20 °C ~ 120 °C
 SUS tube -20 °C ~ 120 °C

Order No.	Connection	Tube size & Material (D)	Float type & Material	Suitable S.G.	Measuring Range
TNMX-AR4	3/8"PF	φ14 SUS 304 SUS 316	S3: φ45x55 SUS 316 S4: φ52x52 SUS 316	>0.65 >0.55	TNMA...Max.6M TNMB...Max.6M
TNMX-AR7	3/8"PF	φ17.2 SUS 304	S5: φ75x73 SUS 304 S6: φ75x108 SUS 304	>0.61 >0.5	TNMA...Max.6M TNMB...Max.6M
TNMB-CR5P3	3/4"PF	φ17.2 PP	P3: φ48x45 PP	>0.6	TNMB...Max.6M
TNMB-CR6F4	3/4"PF	φ16 PVDF	F4: φ48x62 PVDF	>0.75	TNMB...Max.6M

STANDARD



★ B type housing, dimension see page 2.



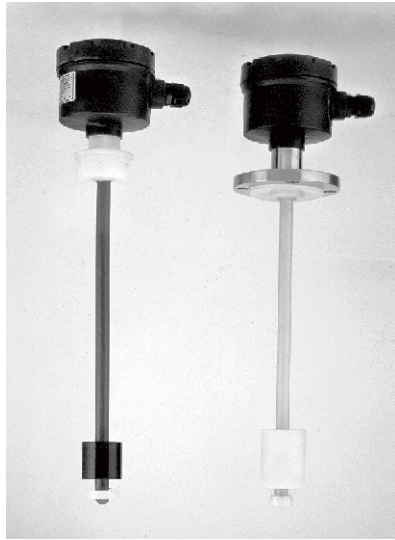
● SPECIFICATION

Terminal Housing: Aluminum, IP65
Output: 4~20mA, 2-wire
Total resistance : 1MΩ (Max.)

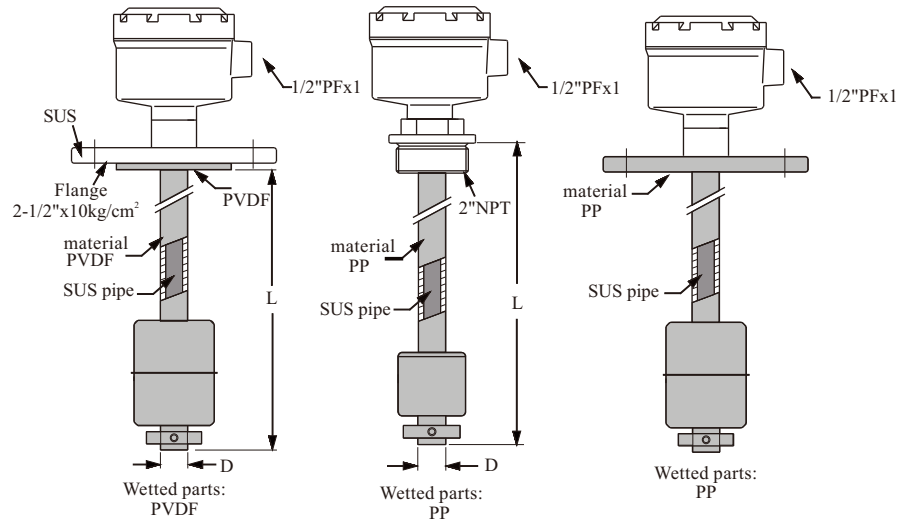
Operating Temperature: -20 ~ 120 °C
Ambient Temperature: 0~70 °C

Order No.	Connection	Tube size & Material (D)	Float type & Material	Suitable S.G.	Measuring Range
TNMxBFQ4	2"PT	φ14 SUS 316 SUS 304	S3: φ45x55 SUS 316 S4: φ52x52 SUS 316	>0.65 >0.55	TNMC/D...Max.6M
TNMxBGN4	2-1/2"x10kg/cm ²	φ14 SUS 316 SUS 304	S3: φ45x55 SUS 316 S4: φ52x52 SUS 316	>0.65 >0.55	TNMC/D...Max.6M
TNMDBHN7	3"x10kg/cm ²	φ17.2 SUS 304	S5: φ75x73 SUS 304 S6: φ75x108 SUS 304	>0.61 >0.5	TNMD...Max.6M
TNMDBIQ7	4"PT	φ17.2 SUS 304	S8: φ100x100 SUS 304	>0.5	TNMD...Max.6M
TNMDBKN8 TNMDBKN9	6"x10kg/cm ²	φ21.7 SUS 304 φ27.2	S9: φ150x150 SUS 304	>0.45	TNMD...Max.12M

ANTI-CORROSIVE



★ C type housing, dimension see page 2.



● SPECIFICATIONS

Terminal Housing: PP +Fiber, IP65
Output: 4~20mA, 2-wire
Ambient Temperature: 0~70 °C

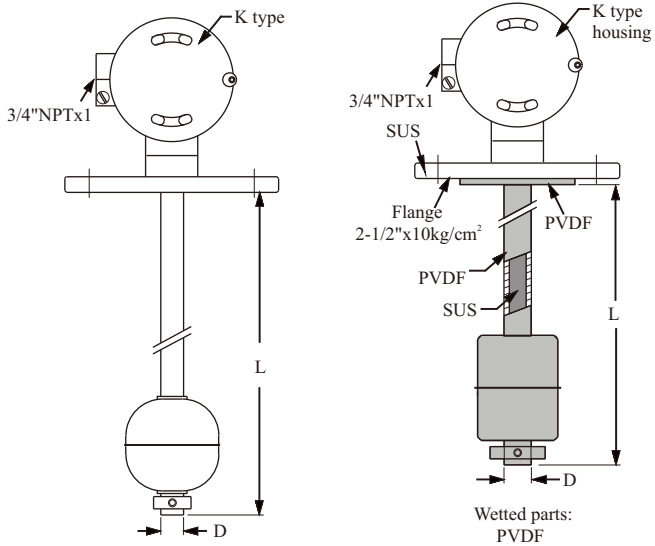
Operating Temperature: PP jacket tube -10 ~ 80 °C
PVDF jacket tube -20 ~ 120 °C
Total resistance: 1MΩ (Max.)

Order No.	Connecting	Tube size & Material (D)	Float type & Material	Suitable S.G.	Measuring Range
TNMDCFQ5P3	2"PT	φ17.2 PP	P3: φ48x45 PP	>0.55	TNMD...Max.6M
TNMDCFQ6F4	2"PT	φ16 PVDF	F4: φ48x62 PVDF	>0.75	TNMD...Max.6M
TNMDCGN5P3	2-1/2"x10kg/cm ²	φ17.2 PP	P3: φ48x45 PP	>0.6	TNMD...Max.6M
TNMDCGN6F4	2-1/2"x10kg/cm ²	φ16 PVDF	F4: φ48x62 PVDF	>0.75	TNMD...Max.

Every unit is protected by a PP or PVDF flange to prevent the sensing rod from corrosion.

6M

★K type ATEX Explosion proof enclosure can be selected (see p2).



● **SPECIFICATION**

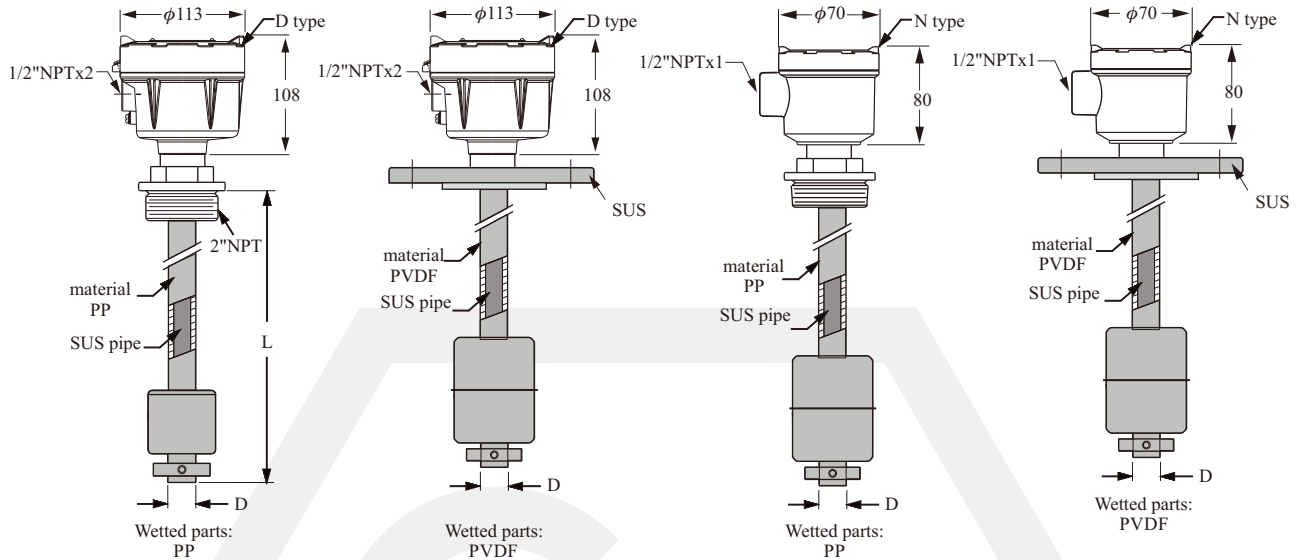
Terminal Housing: K type --- Aluminum, ATEX Ex d IIB T6 **Operating Temperature:** PP tube -10 ~ 80°C
Output: 4~20mA, 2-wire PVDF tube -20 ~ 120°C
Ambient Temperature: 0~70 °C SUS tube -20 ~ 120°C
Total resistance: 1MΩ (Max.)

Order No.	Connection	Tube size & Material (D)	Float type & Material	Suitable S.G.	Measuring Range
TNMXKFQ4	2"PT	φ14 SUS 304	S4: φ52x52 SUS 316	>0.55	TNMA/B...Max.6M TNMC/D...Max.
TNMXKGN4	2-1/2"x10kg/cm ²	φ14 SUS 304	S4: φ52x52 SUS 316	>0.55	6M TNMA/B...Max.
TNMDKHN7	3"x10kg/cm ²	φ17.2 SUS 304	S6: φ75x108 SUS 304	>0.5	6M TNMC/D...Max.
TNMDKIQ4	4"PT	φ17.2 SUS 304	S8: φ100x100 SUS 304	>0.5	6M TNMD...Max.6M
TNMDKFQ5P3	2"PT	φ17.2 PP	P3: φ48x45 PP	>0.6	TNMD...Max.6M
TNMDKFQ6F4	2"PT	φ16 PVDF	F4: φ48x62 PVDF	>0.75	TNMD...Max.6M
TNMDKGN5P3	2-1/2"x10kg/cm ²	φ17.2 PP	P3: φ48x45 PP	>0.6	TNMD...Max.6M
TNMDKGN6F4	2-1/2"x10kg/cm ²	φ16 PVDF	F4: φ48x62 PVDF	>0.75	TNMD...Max.6M

TNMD...Max.6M

ENCLOSURE EXPLOSION PROOF

★ D or N type housing can be selected.



● SPECIFICATIONS

Terminal Housing: D type --- Aluminum
N type --- SUS

Output: 4~20mA, 2-wire

Ambient: 0~70 °C

Total Resistance: 1MΩ (Max.)

Operation Temperature: PP tube -10 ~ 80 °C
PVDF tube -20 ~ 120 °C

MODEL NO. TNM7	Connecting	Tube size (D) & Material	Float type & Material	Suitable S.G.	Measuring Range
TNM7XDFQ4	2"PT	φ14 SUS 316	S3: φ45x55 SUS 316	>0.65	TNM7...Max.3M
TNM7XDGN4	2-1/2"x10kg/cm ²	φ14 SUS 316	S3: φ45x55 SUS 316	>0.65	TNM7...Max.3M
TNM7DDHN7	3"x10kg/cm ²	φ17.2 SUS 304	S5: φ75x73 SUS 304	>0.61	TNM7...Max.6M
TNM7DDIQ4	4"PT	φ17.2 SUS 304	S8: φ100x100 SUS 304	>0.5	TNM7...Max.6M
TNM7DDKN8 TNM7DDKN9 TNM7DDKN8 TNM7DDKN9	6"x10kg/cm ²	φ21.7 φ27.2 SUS 304	S9: φ150x150 SUS 304	>0.45	TNM7...Max.6M
TNM7DDFQ5P3	2"PT	φ17.2 PP	P3: φ48x45 PP	>0.6	TNM7...Max.6M
TNM7DDFQ6F4	2"PT	φ16 PVDF	F4: φ48x62 PVDF	>0.75	TNM7...Max.6M
TNM7DDGN5P3	2-1/2"x10kg/cm ²	φ17.2 PP	P3: φ48x45 PP	>0.6	TNM7...Max.6M
TNM7DDGN6F4	2-1/2"x10kg/cm ²	φ16 PVDF	F4: φ48x62 PVDF	>0.75	TNM7...Max.6M

MODEL NUMBER / ORDER CODE COMPARISON TABLE

Model Number	Order Code
TNM-AR4	TNM10100-A10AAA403CMA2B
TNM-AR7	TNM10100-A10AAA403CMA2D
TNMB-CR5P3	TNM10100-B10AAA703E182D
TNMB-CR6F4	TNM10100-AAA703E242C
TNMBFQ4	TNM10000-A1BAAB201CMA2B
TNMBGN4	TNM10000-A1BAKB442
TNMBBHN7	TNM10000-A1BAKB542EMA2D
TNMBBIQ7	TNM10000-A1BAKB701EMA2D
TNMBBKN8	TNM10000-A1BAKB942EMA3A
TNMBBKN9	TNM10000-A1BAKB942EMA3B
TNMDCFQ5P3	TNM10000-B1CAAB201E182DP3
TNMDCFQ6F4	TNM10000-B1CAAB201E242CF4
TNMDCGN5P3	TNM10000-B1CAKB442E182DP3
TNMDCGN6F4	TNM10000-B1CAKB442E242CF4
TNMKFQ4	TNM10000-A1KAAB201CMA2B
TNMKGN4	TNM10000-A1KAKB442CMA2B
TNMDKHN7	TNM10000-A1KAKB542EMA2D
TNMDKIQ4	TNM10000-A1KAAB701EMA2D
TNMDKFQ5P3	TNM10000-A1KAAB201E182DP3
TNMDKFQ6F4	TNM10000-A1KAAB201E242CF4
TNMDKGN5P3	TNM10000-A1KAKB442E182DP3
TNMDKGN6F4	TNM10000-A1KAKB442E242CF4
TNM7KDFQ4	TNM100□□-A1DAAB201CMB2BS3
TNM7KDGN4	TNM100□□-A1DAKB442CMB2BS3
TNM7DDHN7	TNM100□□-A1DAKB542EMA2DS5
TNM7DDIQ4	TNM100□□-A1DAAB707EMA2DS8
TNM7DDKN8	TNM100□□-A1DAKB942EMA3AS9
TNM7DDKN9	TNM100□□-A1DAKB942EMA3BS9
TNM7DDFQ5P3	TNM100□□-A1DAAB207E182DP3
TNM7DDFQ6F4	TNM100□□-A1DAAB207E242CF4
TNM7DDGN5P3	TNM100□□-A1DAKB442E182DP3
TNM7DDGN6F4	TNM100□□-A1DAKB442E242CF4

ORDER INFORMATION

05 06 07 08 - 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 29 30 31 32 33

⑤⑥ Model

- 00: Standard
- 01: Economy type

⑦⑧ Certification

- 00: None
- 1C: ATEX-Exd
- 7C: NEPSI-Exd

⑨⑩ Probe type

- A1: Rod type
- A2: FLEXIBLE MODEL
- B1: Corrosion-proof rod type

⑪ Housing type

- 0: Without housing
- B: B type housing (Aluminum)
- C: C type housing (PP)
- D: D type housing (Aluminum)
- E: Terminal head (Aluminum)
- K: K type (Aluminum)
- N: N type (stainless steel)

Connection

⑫⑬

- Flange
- AK: JIS-FF
- AN: ANSI-RF
- AS: DIN-FF

- Thread AA:
- JIS AC: ANSI

⑭⑮

- A 4 3 / 8 " D7: DN20
- A 5 1 / 2 " D8: DN25
- A 7 3 / 4 " D9: DN32
- A8: 1" E1: DN40
- B1: 1-1/2" E2: DN50
- B2: 2" E3: DN65
- B4: 2-1/2"
- B5: 3"
- B7: 4"
- B8: 5"
- B9: 6"

⑯⑰

- 01: PT male
- 03: PF male
- 07: NPT male
- 40: 5 kg/cm²
- 42: 10 kg/cm²
- 48: 150 Lbs
- 49: 300 Lbs
- 57: PN10
- 58: PN16

⑱ Resolution

- C: 6.35mm
- E: 12.7mm

(Next page)

TNM1 ⁰⁵□ ⁰⁶□ ⁰⁷□ ⁰⁸□ - ⁰⁹□ ¹⁰□ ¹¹□ ¹²□ ¹³□ ¹⁴□ ¹⁵□ ¹⁶□ ¹⁷□ ¹⁸□ ¹⁹□ ²⁰□ ²¹□ ²²□ ²³□ ²⁴□ 00 ²⁷□ 0 ²⁹□ ³⁰□ ³¹□ ³²□ ³³□

¹⁹ ²⁰ Probe material

MA: SUS 304
MB: SUS 316
18: PP
24: PVDF

²¹ ²² Probe diameter

1G: ϕ 9.5mm 2D: ϕ 17.2mm
2A: ϕ 12.7mm 3A: ϕ 21.7mm
2B: ϕ 14.0mm 3B: ϕ 27.2mm
2C: ϕ 16.0mm

²³ ²⁴ Float 1

00: None
S3: 45*55*15 E>0.65 S9: 150*150*30 E>0.45 P3: 48*45*18.5 E>0.6
S4: 52*52*15 E>0.55 F4: 48*62*18 E>0.8 P9: 74*45*28 E>0.64
S5: 75*73*20.5 E>0.65 R6: 72*118*28 E>0.62 PI: 74*45*28 E>0.96
S6: 75*108*20 E>0.5 RF: 72*118*28 E>0.95
S8: 100*100*20 E>0.5

²⁷ Analog output

B: 4~20mA
E: 3-wire resistance output

²⁹ Material and surface roughness

0: None
A: Ra < 0.3
B: Ra < 0.5
C: Ra < 0.8

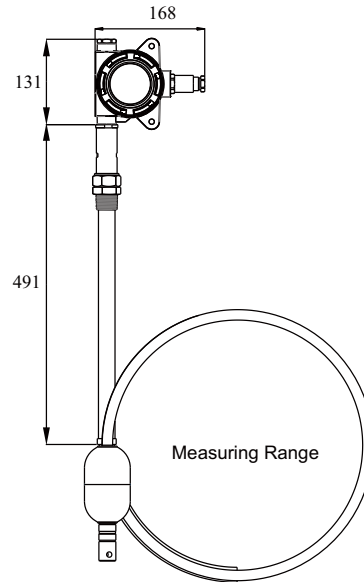
³⁰ ³¹ ³² ³³ Length

Code	Probe Length
0150~A300	150~30000mm

DISPLAY MODEL

MODEL: Flexible Magnetic Float Level Transmitter (Digital display type)

Power Supply: 12~36Vdc
 Measuring range: 3000mm~30000mm
 Analog output: Loop power 4~20mA
 Resolution: 12.7mm
 Digital communication: HART、RS485
 Load impedance: RL(Max)=50(Vs-8)
 Accuracy: $\pm 0.1\%$ (25°C)
 Ambient temp.: -40~80°C
 Operating temp.: -40~80°C
 IP rating: IP67



FEATURE

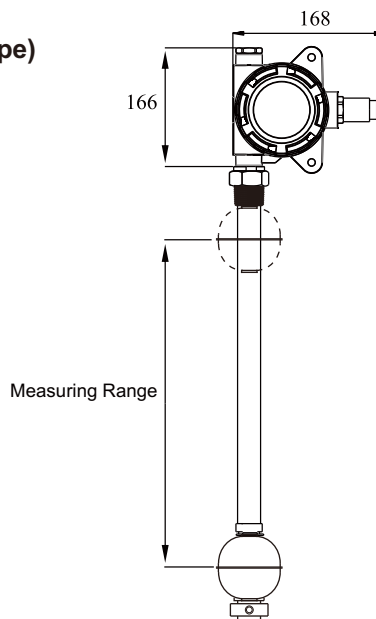
- Cover protection for reed module, to prevent any damage during transportation.
- Not effect by temperature and pressure variaion.
- Easy to record and set up with digital display.
- Easy to install, need not to do periodic calibration and maintenance.

EXPLOSION PROOF DISPLAY MODEL

NEPSI PROOF No.GYB16.1444X
Ex d IIC T3~T6 Gb

MODEL: Explosion proof Magnetic Float Level Transmitter (Digital display type)

Power Supply: 12~36 Vdc
 Measuring range: 150mm~3000mm
 Analog output: 4~20mA, 2Wire(Loop power)
 Resolution: 6.35mm / 12.7mm
 Digital communication: HART/RS-485
 Ambient temp.: -40~85°C
 Operating temp.: -40~125°C
 IP rating: IP67



ORDER INFORMATION

TNM2 - 0 0

⑤⑥ **Model**

00: Standard

⑦⑧ **Certification**

00: None

7C: NEPSI-Exd

⑨⑩ **Probe type**

A1: rod type

A2: FLEXIBLE MODEL

B1: Corrosion-proof rod type

⑪ **Housing type**

A: A type housing
(Aluminum)

Connection

⑫⑬

Flange

AK: JIS-FF

AN: ANSI-RF

AS: DIN-FF

Thread AA:

JIS AC:

ANSI

⑭⑮

B2: 2"

B4: 2-1/2"

B5: 3"

B7: 4"

B8: 5"

B9: 6"

E2: DN50

E4: DN80

E5: DN100

⑯⑰

01: PT male

03: PF male

07: NPT male

40: 5 kg/cm²

42: 10 kg/cm²

48: 150 Lbs

49: 300 Lbs

57: PN10

58: PN16

⑱ **Resolution**

C: 6.35mm

E: 12.7mm

⑲⑳ **Probe material**

MA: SUS 304

MB: SUS 316

21: PTFE

TNM2 - **0 0**

⑳ ㉑ Probe diameter

- 2A : ϕ 12.7mm
- 2B : ϕ 14.0mm
- 2C : ϕ 16.0mm
- 2D : ϕ 17.2mm
- 3B : ϕ 27.2mm

㉓ ㉔ Float1

- S3: 45*55*15 E>0.65 S8: 100*100*20 E>0.5 P3: 48*45*18.5 E>0.6
- S4: 52*52*15 E>0.55 S9: 150*150*30 E>0.45 P9: 74*45*28 E>0.64
- S5: 75*73*20.5 E>0.65 F4: 48*62*18 E>0.8
- S6: 75*108*20 E>0.5 R6: 72*118*28 E>0.62

㉗ Analog output

- B: 4~20mA
- C: 20~4mA

㉘ Digital output

- 0: None
- B: RS-485
- C: RS485 +PT100
- E: HART
- F: HART 7.3 +PT100

㉙ Material and surface roughness

- 0: None
- A: Ra < 0.3
- B: Ra < 0.5
- C: Ra < 0.8

㉚ ㉛ ㉜ Length

Code	Probe Length
0150~A300	150~30000mm

MR SENSOR FLOAT LEVEL TRANSMITTER

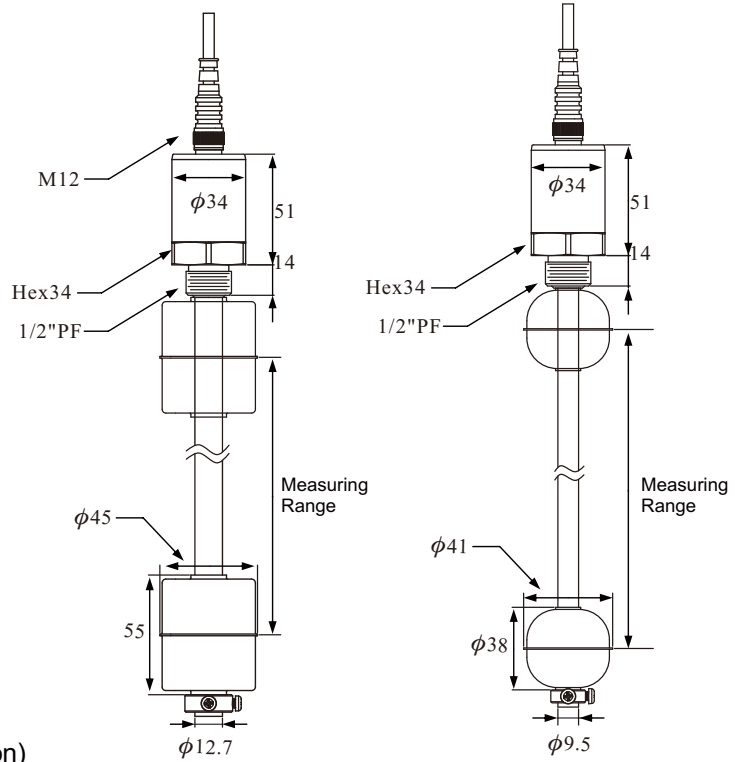
MODEL: TNM3 MR Sensor Float Level Transmitter

PRINCIPLE

MR Sensor Float Level Transmitter is utilizing the position of magnetic float change along with fluid level. The sensing rod is composed of resistance and MR sensor as a voltage divider circuit. The smaller the MR Sensor interval, the higher the accuracy. The signal from voltage divider circuit will be converted to 4~20 mA, RS-485 and HART are also available.

SPECIFICATION

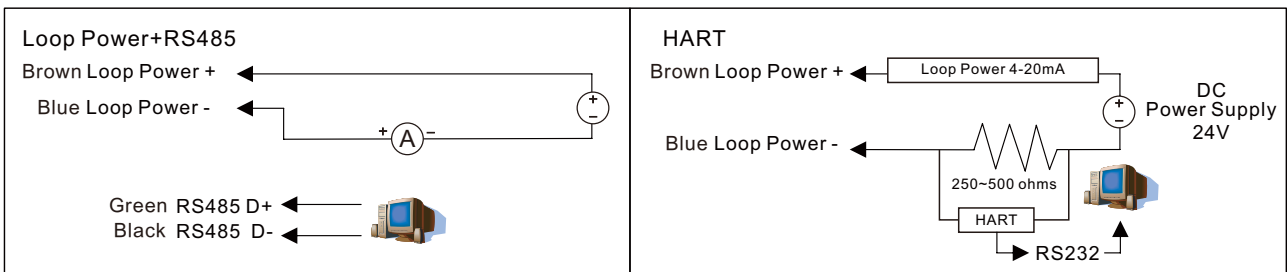
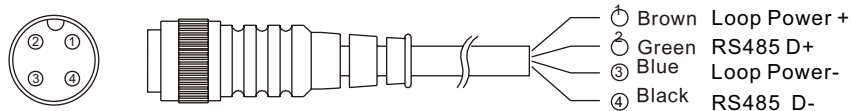
Power Supply: 12~36Vdc
 Measuring range: 150mm~3000mm
 Analog output: 4~20mA
 Ambient temp.: -40~85°C
 Operating temp.: -40~85°C
 IP rating: IP67
 Resolution: 5mm / 3mm
 Digital communication: RS485 / HART(option)



FEATURE

- Easy installation without calibration & maintenance.
- Not effect by temperature and pressure variaion.
- high accuracy Optional 5mm / 3mm
- Protection:IP67

WIRING



ORDER INFORMATION

TNM30 0 0 0 - ⁰⁹ ¹⁰ ¹¹ ¹² ¹³ ¹⁴ ¹⁵ ¹⁶ ¹⁷ ¹⁸ ¹⁹ ²⁰ ²¹ ²² ²³ ²⁴ 0 0 ²⁷ ²⁸ ²⁹ ³⁰ ³¹ ³² ³³

⁰⁹¹⁰ Probe type

A1: Rod type

¹¹ Housing type

0: Without housing

Connection

¹² ¹³

Flange
AK: JIS-FF
AN: ANSI-RF
AS: DIN-FF

¹⁴ ¹⁵

A5: 1/2"
A7: 3/4"
A8: 1"
B1: 1-1/2"
B2: 2"
B4: 2-1/2"
B5: 3"
B7: 4"
B8: 5"
B9: 6"
E2: DN50
E4: DN80
E5: DN100

¹⁶ ¹⁷

01: PT male
03: PF male
07: NPT male
40: 5 kg/cm²
42: 10 kg/cm²
48: 150 Lbs
49: 300 Lbs
57: PN10
58: PN16

¹⁸ Resolution

A: 3mm
B: 5mm

¹⁹²⁰ Probe material

MA: SUS 304
MB: SUS 316

²¹²² Probe diameter

1G: ϕ 9.5mm
2A: ϕ 12.7mm
2C: ϕ 16.0mm

* ϕ 9.5mm Only available for resolution 5mm

* While the total length is over 2000mm, the stem size is only ϕ 16mm

(Next page)

TNM30 0 0 0 - ⁰⁹ ¹⁰ ¹¹ ¹² ¹³ ¹⁴ ¹⁵ ¹⁶ ¹⁷ ¹⁸ ¹⁹ ²⁰ ²¹ ²² ²³ ²⁴ 0 0 ²⁷ ²⁸ ²⁹ ³⁰ ³¹ ³² ³³

²³ ²⁴ Float 1

- S2: 41*38*11 E>0.7
- S3: 45*55*15 E>0.65
- S5: 75*73*20.5 E>0.65

²⁷ Analog output

- B: 4~20mA
- C: 20~4mA

²⁸ Digital output

- B: RS-485
- C: RS485 +PT100
- E: HART
- F: HART 7.3 +PT100

²⁹ Material and surface roughness

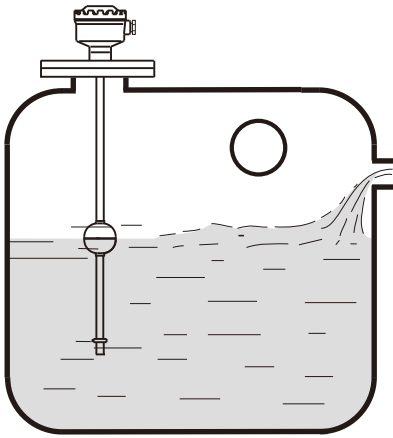
- 0: None
- A: Ra < 0.3
- B: Ra < 0.5
- C: Ra < 0.8

³⁰ ³³ ³² ³³ Length

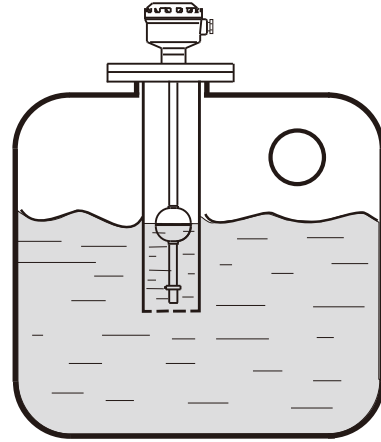
Code	Probe Length
0150~3000	150~3000mm

INSTALLATION

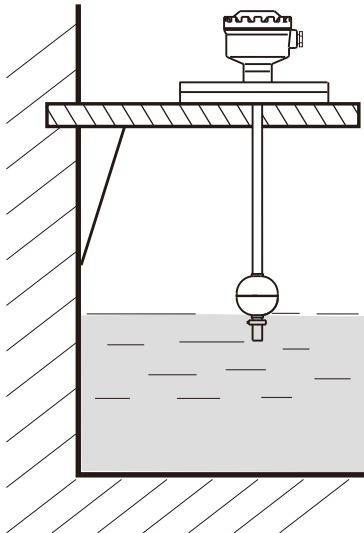
- ▶ The float level transmitter should be mounted far away from the inlet. Any rigorous liquid turbulence will produce error output signals.



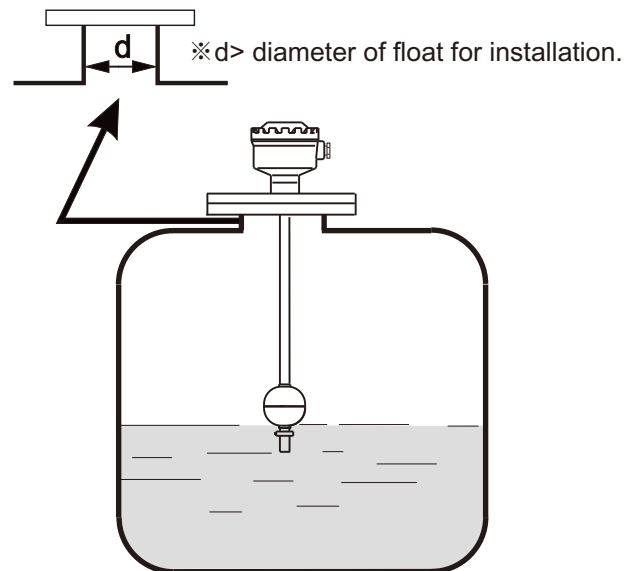
- ▶ A pipe shield or an equivalent device can help normalize the indicator actuation especially when an agitator is present.



- ▶ Another useful alternative is an L type support frame when the level indicator is mounted in concrete wall tank as figure below.



- ▶ It is recommended to select the standpipe with diameter (d) larger than the float for the installation process.



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