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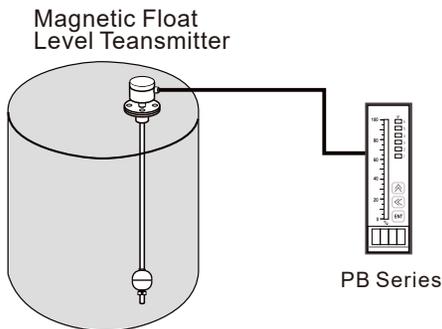
# Magnetic Float Level Transmitter



# 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, BV, LR, DNV.GL, CR available

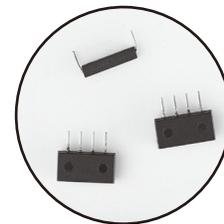


Fig.1  
Sensing Element

## 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

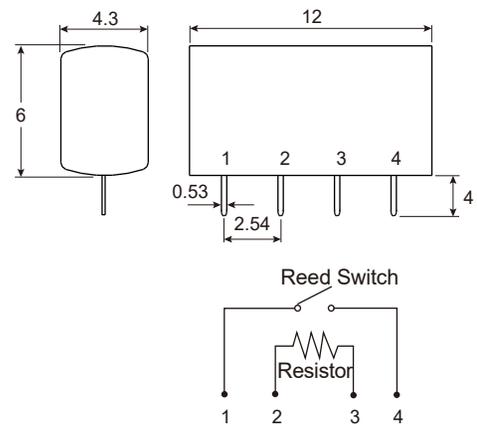
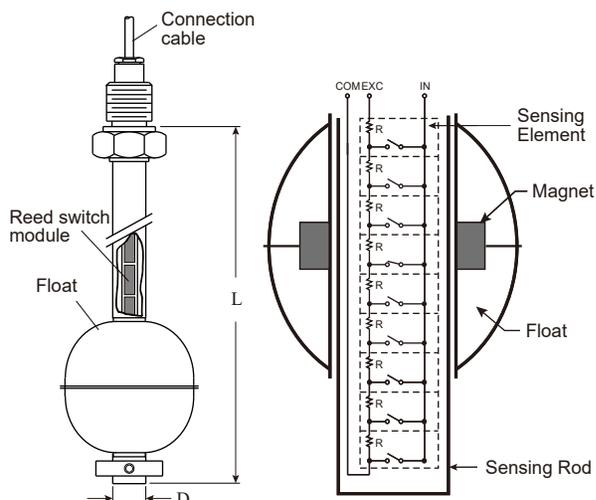


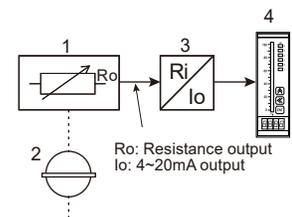
Fig.2  
Sensing Element Size

## 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  
Note:whole unit (withhousing) is with NEPSI/ ATEX approvals.  
Please check details in pages of specifications.

**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 :CESI03ATEX108  
ATEX II 2G Ex d IIC T6  
Max.Temp.: -20°C~100°C

**N**

Material :SUS316  
Enclosure :IP65  
Max.Temp.: -20°C~200°C  
Note:whole unit (withhousing) is with NEPSI/ ATEX approvals.  
Please check details in pages of specifications.

**X**

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

**ACCESSORIES**

**Cable Conduit - Ex d IIC**  
Material: Washer — NBR  
Body— Copper alloy(3/4"NPT)  
Nickel plated(1/2"NPT)

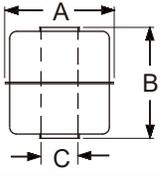
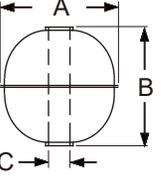
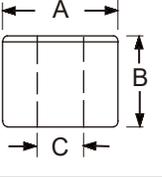
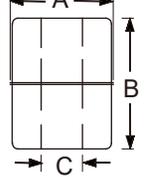
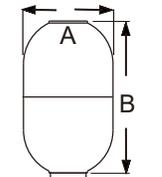
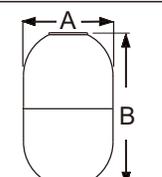
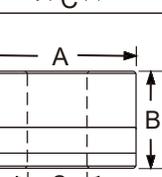
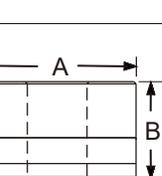
**HP415-A23100MH01(29-1104)**

$\phi$ Max=14  
 $\phi$ Min=10

**HP415-A23000MG01(29-1108)**

$\phi$ Max=10  
 $\phi$ Min=6.5

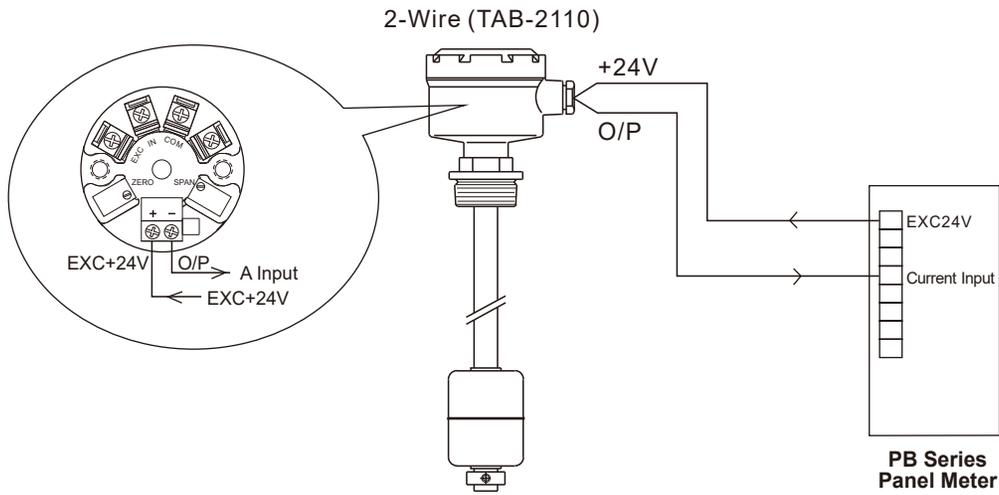
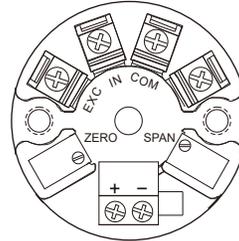
# FLOAT SPECIFICATIONS

| Dimension   | Type | AxBxC(mm)  | S.G. | Max. Pressure (kg/cm <sup>2</sup> ) | 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<br>SUS 316 | 200°C           | 165                |
|    | S4   | 52x52x15   | 0.55 | 30                                  | SUS 316            | 200°C           | 33.4               |
|   | S5   | 75x73x19   | 0.61 | 30                                  | SUS 304<br>SUS 316 | 200°C           | 105                |
|   | S8   | 100x100x20 | 0.5  | 15                                  | SUS 304<br>SUS 316 | 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

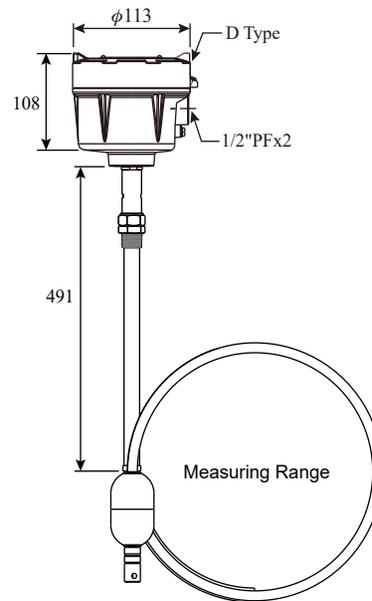
- Power Supply : 12~36Vdc
- Output Current : Loop power 4~20mA
- Load Resistance :  $RL(\text{Max})=50(\text{Vs}-12)$
- Ambient Temperature : -40~80°C
- Ambient Humidity : 0~80% RH
- Accuracy :  $\pm 0.1\%(25^\circ\text{C})$
- Temperature Effect : 0.01%F.S./°C
- Adjustment Range : Span Adjustment 20%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



# FLEXIBLE MODEL DIGITALE DISPLAY TYPE / ECONOMICAL TYPE

## MODEL: Flexible Magnetic Float Level Transmitter (Economical type)

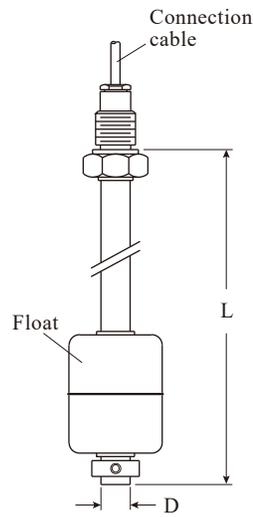
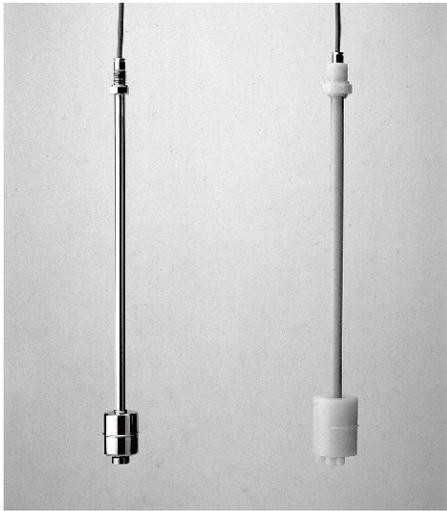
|                 |                          |
|-----------------|--------------------------|
| Power Supply    | : 12~36Vdc               |
| Measuring range | : 3000mm~30000mm         |
| Analog output   | : 4~20mA loop power      |
| Resolution      | : 12.7mm                 |
| Load impedance  | : RL (Max.) = 50 (Vs-12) |
| 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



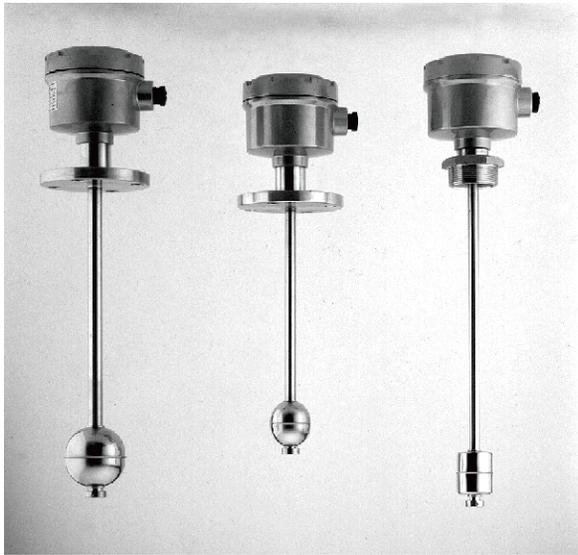
## ● SPECIFICATIONS

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

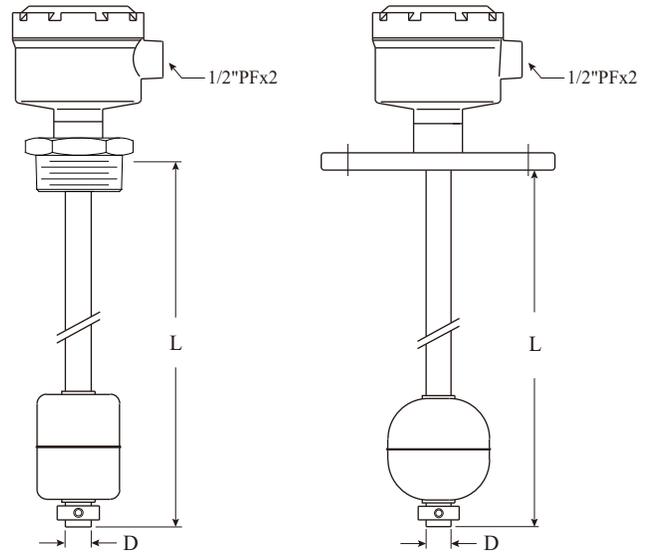
**Operating Temp.:** PP tube -10 °C ~ 80°C  
 PVDF tube -20°C ~ 120°C  
 SUS tube -20°C ~ 120°C

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

# STANDARD



★ B type housing, dimension see page 2.



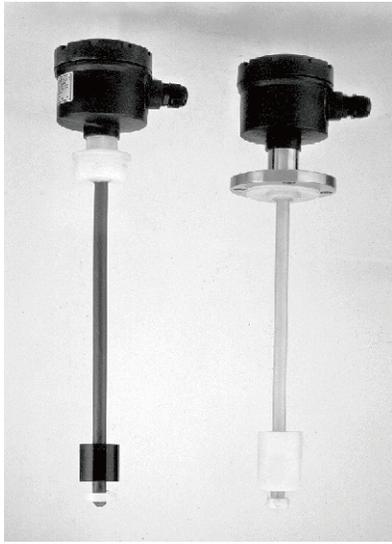
## ● SPECIFICATION

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

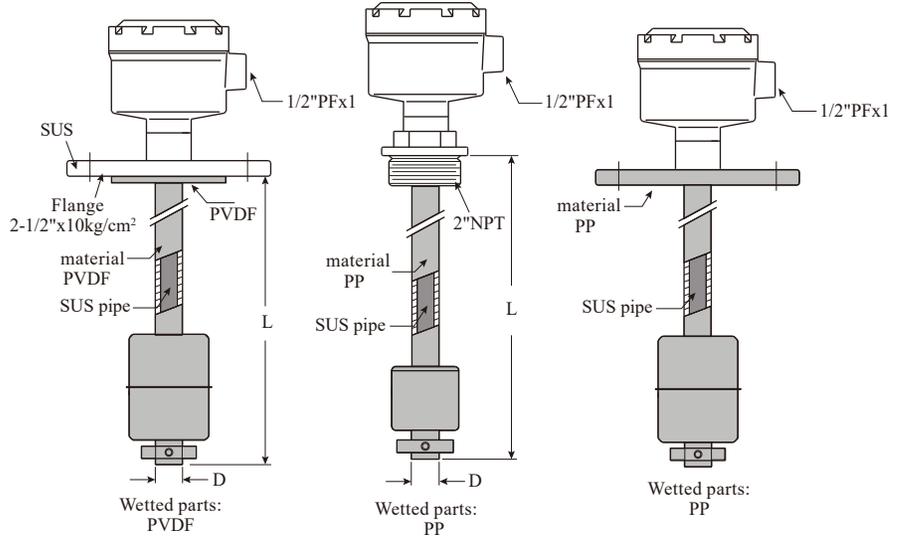
**Operating Temperature:** -20 ~ 120°C  
**Ambient Temperature:** 0 ~ 70°C

| Order No.                        | Connection                  | Tube size & Material (D) | Float type & Material                    | Suitable S.G.  | Measuring Range |
|----------------------------------|-----------------------------|--------------------------|--|----------------|-----------------|
| <b>FG□BFQ4</b>                   | 2"PT                        | φ14 SUS 316<br>SUS 304   | S3: φ45x55 SUS 316<br>S4: φ52x52 SUS 316 | >0.65<br>>0.55 | FGC/D...Max.6M  |
| <b>FG□BGN4</b>                   | 2-1/2"x10kg/cm <sup>2</sup> | φ14 SUS 316<br>SUS 304   | S3: φ45x55 SUS 316<br>S4: φ52x52 SUS 316 | >0.65<br>>0.55 | FGC/D...Max.6M  |
| <b>FGDBHN7</b>                   | 3"x10kg/cm <sup>2</sup>     | φ17.2 SUS 304            | S5: φ75x73 SUS 304<br>SUS 316            | >0.61<br>>0.5  | FGD...Max.6M    |
|                                  |                             |                          | S6: φ75x108 SUS 304<br>SUS 316           |                |                 |
| <b>FGDBIQ7</b>                   | 4"PT                        | φ17.2 SUS 304            | S8: φ100x100 SUS 304<br>SUS 316          | >0.5           | FGD...Max.6M    |
| <b>FGDBKN8</b><br><b>FGDBKN9</b> | 6"x10kg/cm <sup>2</sup>     | φ21.7<br>φ27.2 SUS 304   | S9: φ150x150 SUS 304                     | >0.45          | FGD...Max.12M   |

# ANTI-CORROSIVE



★ C type housing, dimension see page 2.



## ● SPECIFICATIONS

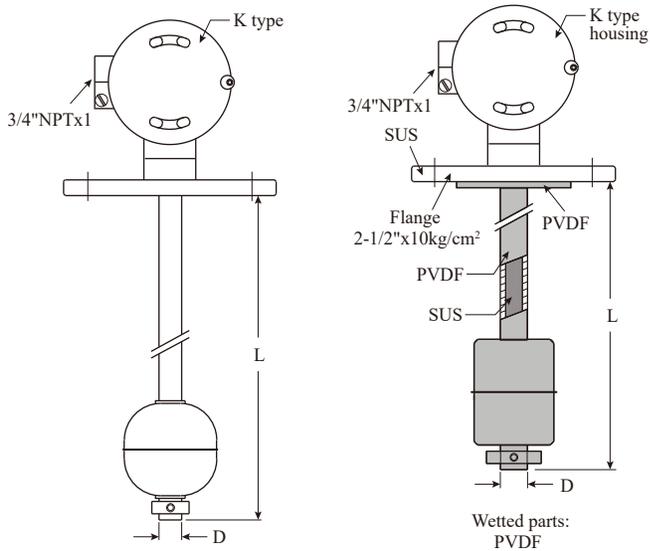
**Terminal Housing:** PP +Fiber, IP65  
**Output:** 4 ~ 20mA, 2-wire  
**Ambient Temperature:** 0~70°C

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

| Order No. | Connecting      | Tube size & Material (D) | Float type & Material | Suitable S.G. | Measuring Range |
|-----------|-----------------|--------------------------|-----------------------|---------------|-----------------|
| FGDCFQ5P3 | 2"PT            | φ17.2 PP                 | P3: φ48x45 PP         | >0.55         | FGD...Max.6M    |
| FGDCFQ6F4 | 2"PT            | φ16 PVDF                 | F4: φ48x62 PVDF       | >0.75         | FGD...Max.6M    |
| FGDCGN5P3 | 2-1/2"x10kg/cm² | φ17.2 PP                 | P3: φ48x45 PP         | >0.6          | FGD...Max.6M    |
| FGDCGN6F4 | 2-1/2"x10kg/cm² | φ16 PVDF                 | F4: φ48x62 PVDF       | >0.75         | FGD...Max.6M    |

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

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



## ● SPECIFICATION

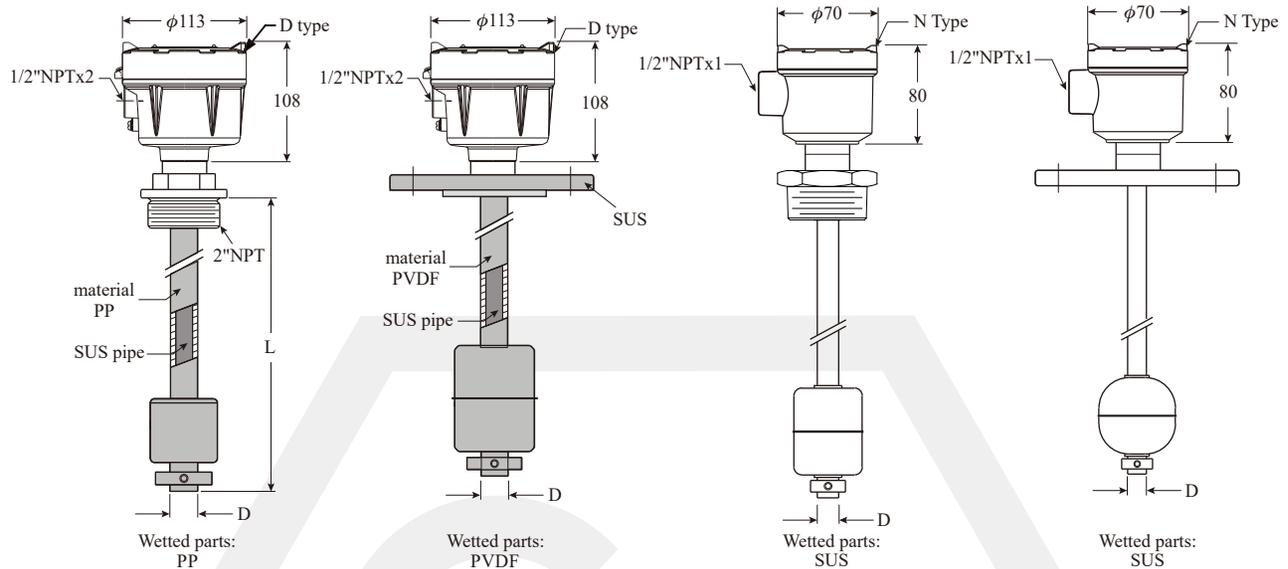
**Terminal Housing:** K type --- Aluminum, ATEX Ex d IIC T6  
**Output:** 4 ~ 20mA, 2-wire  
**Ambient Temperature:** 0 ~ 70°C  
**Total Resistance:** 1MΩ (Max.)

**Operating Temperature:** PP tube -10 ~ 80°C  
 PVDF tube -20 ~ 120°C  
 SUS tube -20 ~ 120°C

| Order No. | Connection                  | Tube size & Material (D) | Float type & Material           | Suitable S.G. | Measuring Range                  |
|-----------|-----------------------------|--------------------------|---------------------------------|---------------|----------------------------------|
| FG□KFQ4   | 2"PT                        | φ14 SUS 304              | S4: φ52x52 SUS 316              | >0.55         | FGA/B...Max.6M<br>FGC/D...Max.6M |
| FG□KGN4   | 2-1/2"x10kg/cm <sup>2</sup> | φ14 SUS 304              | S4: φ52x52 SUS 316              | >0.55         | FGA/B...Max.6M<br>FGC/D...Max.6M |
| FGDKHN7   | 3"x10kg/cm <sup>2</sup>     | φ17.2 SUS 304            | S6: φ75x108 SUS 304<br>SUS 316  | >0.5          | FGD...Max.6M                     |
| FGDKIQ4   | 4"PT                        | φ17.2 SUS 304            | S8: φ100x100 SUS 304<br>SUS 316 | >0.5          | FGD...Max.6M                     |
| FGDKFQ5P3 | 2"PT                        | φ17.2 PP                 | P3: φ48x45 PP                   | >0.6          | FGD...Max.6M                     |
| FGDKFQ6F4 | 2"PT                        | φ16 PVDF                 | F4: φ48x62 PVDF                 | >0.75         | FGD...Max.6M                     |
| FGDKGN5P3 | 2-1/2"x10kg/cm <sup>2</sup> | φ17.2 PP                 | P3: φ48x45 PP                   | >0.6          | FGD...Max.6M                     |
| FGDKGN6F4 | 2-1/2"x10kg/cm <sup>2</sup> | φ16 PVDF                 | F4: φ48x62 PVDF                 | >0.75         | FGD...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

SUS tube -2 ~ 120°C

| MODEL NO. FG7                                | Connecting                  | Tube size (D) & Material | Float type & Material           | Suitable S.G. | Measuring Range |
|--|-----------------------------|--------------------------|---------------------------------|---------------|-----------------|
| FG7□DFQ4                                     | 2"PT                        | φ14 SUS 316              | S3: φ45x55 SUS 316              | >0.65         | FG7...Max.3M    |
| FG7□DGN4                                     | 2-1/2"x10kg/cm <sup>2</sup> | φ14 SUS 316              | S3: φ45x55 SUS 316              | >0.65         | FG7...Max.3M    |
| FG7DDHN7                                     | 3"x10kg/cm <sup>2</sup>     | φ17.2 SUS 304            | S5: φ75x73 SUS 304<br>SUS 316   | >0.61         | FG7...Max.6M    |
| FG7DDIQ4                                     | 4"PT                        | φ17.2 SUS 304            | S8: φ100x100 SUS 304<br>SUS 316 | >0.5          | FG7...Max.6M    |
| FG7DDKN8<br>FG7DDKN9<br>FG7DDKN8<br>FG7DDKN9 | 6"x10kg/cm <sup>2</sup>     | φ21.7<br>φ27.2 SUS 304   | S9: φ150x150 SUS 304            | >0.45         | FG7...Max.6M    |
| FG7DDFQ5P3                                   | 2"PT                        | φ17.2 PP                 | P3: φ48x45 PP                   | >0.6          | FG7...Max.6M    |
| FG7DDFQ6F4                                   | 2"PT                        | φ16 PVDF                 | F4: φ48x62 PVDF                 | >0.75         | FG7...Max.6M    |
| FG7DDGN5P3                                   | 2-1/2"x10kg/cm <sup>2</sup> | φ17.2 PP                 | P3: φ48x45 PP                   | >0.6          | FG7...Max.6M    |
| FG7DDGN6F4                                   | 2-1/2"x10kg/cm <sup>2</sup> | φ16 PVDF                 | F4: φ48x62 PVDF                 | >0.75         | FG7...Max.6M    |

## MODEL NUMBER / ORDER CODE COMPARISON TABLE

| Model Number | Order Code                |
|--------------|---------------------------|
| FG□-AR4      | FGX10100-A10AAA403CMA2B   |
| FG□-AR7      | FGX10100-A10AAA403CMA2D   |
| FGB-CR5P3    | FGX10100-B10AAA703E182D   |
| FGB-CR6F4    | FGX10100-AAA703E242C      |
| FG□BFQ4      | FGX10000-A1BAAB201CMA2B   |
| FG□BGN4      | FGX10000-A1BAKB442        |
| FGBBHN7      | FGX10000-A1BAKB542EMA2D   |
| FGBBIQ7      | FGX10000-A1BAKB701EMA2D   |
| FGBBKN8      | FGX10000-A1BAKB942EMA3A   |
| FGBBKN9      | FGX10000-A1BAKB942EMA3B   |
| FGDCFQ5P3    | FGX10000-B1CAAB201E182DP3 |
| FGDCFQ6F4    | FGX10000-B1CAAB201E242CF4 |
| FGDCGN5P3    | FGX10000-B1CAKB442E182DP3 |
| FGDCGN6F4    | FGX10000-B1CAKB442E242CF4 |
| FG□KFQ4      | FGX10000-A1KAAB201CMA2B   |
| FG□KGN4      | FGX10000-A1KAKB442CMA2B   |
| FGDKHN7      | FGX10000-A1KAKB542EMA2D   |
| FGDKIQ4      | FGX10000-A1KAAB701EMA2D   |
| FGDKFQ5P3    | FGX10000-A1KAAB201E182DP3 |
| FGDKFQ6F4    | FGX10000-A1KAAB201E242CF4 |
| FGDKGN5P3    | FGX10000-A1KAKB442E182DP3 |
| FGDKGN6F4    | FGX10000-A1KAKB442E242CF4 |
| FG7□DFQ4     | FGX10099-A1DAAB201CMB2BS3 |
| FG7□DGN4     | FGX10099-A1DAKB442CMB2BS3 |
| FG7DDHN7     | FGX10099-A1DAKB542EMA2DS5 |
| FG7DDIQ4     | FGX10099-A1DAAB707EMA2DS8 |
| FG7DDKN8     | FGX10099-A1DAKB942EMA3AS9 |
| FG7DDKN9     | FGX10099-A1DAKB942EMA3BS9 |
| FG7DDFQ5P3   | FGX10099-A1DAAB207E182DP3 |
| FG7DDFQ6F4   | FGX10099-A1DAAB207E242CF4 |
| FG7DDGN5P3   | FGX10099-A1DAKB442E182DP3 |
| FG7DDGN6F4   | FGX10099-A1DAKB442E242CF4 |

# ORDER INFORMATION

FGX1 <sup>05</sup> <sup>06</sup> <sup>07</sup> <sup>08</sup> - <sup>09</sup> <sup>10</sup> <sup>11</sup> <sup>12</sup> <sup>13</sup> <sup>14</sup> <sup>15</sup> <sup>16</sup> <sup>17</sup> <sup>18</sup> <sup>19</sup> <sup>20</sup> <sup>21</sup> <sup>22</sup> <sup>23</sup> <sup>24</sup> 00 <sup>27</sup> 0 <sup>29</sup> <sup>30</sup> <sup>31</sup> <sup>32</sup> <sup>33</sup>

**<sup>05</sup> <sup>06</sup> Model**

- 00: Standard
- 01: Economy type

**<sup>07</sup> <sup>08</sup> Certification**

- 00: None
- 1C: ATEX-Ex d
- 2C: IECEx-db
- 5C: TS-Ex d
- 7C: NEPSI-Ex d
- 1D: ATEX-Ex tb
- B0: DNV.GL
- C0: ABS
- E0: BV
- F0: LR
- G0: CR

**<sup>09</sup> <sup>10</sup> Probe type**

- A1: Rod type
- A2: Flexible model
- B1: Corrosion-proof rod type

**<sup>11</sup> 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**

<sup>12</sup> <sup>13</sup>

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

<sup>14</sup> <sup>15</sup>

- A4: 3/8"
- 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"
- D7: DN20
- D8: DN25
- D9: DN32
- E1: DN40
- E2: DN50
- E3: DN65

<sup>16</sup> <sup>17</sup>

- 01: PT male
- 03: PF male
- 07: NPT male
- 40: 5 kg/cm<sup>2</sup>
- 42: 10 kg/cm<sup>2</sup>
- 48: 150 Lbs
- 49: 300 Lbs
- 57: PN10
- 58: PN16

**<sup>18</sup> Resolution**

- C: 6.35mm
- E: 12.7mm

(Next page)

FGX1 <sup>05</sup> <sup>06</sup> <sup>07</sup> <sup>08</sup> - <sup>09</sup> <sup>10</sup> <sup>11</sup> <sup>12</sup> <sup>13</sup> <sup>14</sup> <sup>15</sup> <sup>16</sup> <sup>17</sup> <sup>18</sup> <sup>19</sup> <sup>20</sup> <sup>21</sup> <sup>22</sup> <sup>23</sup> <sup>24</sup> 00 <sup>27</sup> 0 <sup>29</sup> <sup>30</sup> <sup>31</sup> <sup>32</sup> <sup>33</sup>

<sup>19</sup> <sup>20</sup> **Probe material**

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

<sup>21</sup> <sup>22</sup> **Probe diameter**

2A:  $\phi$ 12.7mm      2D:  $\phi$ 17.2mm  
 2B:  $\phi$ 14.0mm      3A:  $\phi$ 21.7mm  
 2C:  $\phi$ 16.0mm      3B:  $\phi$ 27.2mm

Note1: 2A only 12.7mm resolution is available.  
 Note2: 2D pp material & 2C PVDF material when measuring range>500mm only 12.7mm resolution is available.

<sup>23</sup> <sup>24</sup> **Float**

00: None  
 S3: 45\*55\*15 E>0.65      S9: 150\*150\*30 E>0.45  
 S4: 52\*52\*15 E>0.55      F4: 48\*62\*18 E>0.75      P3: 48\*45\*18.5 E>0.6  
 S5: 75\*73\*20.5 E>0.65      R6: 72\*118\*28 E>0.62      P9: 74\*45\*28 E>0.64  
 S6: 75\*108\*20 E>0.5      RF: 72\*118\*28 E>0.95      P1: 74\*45\*28 E>0.96  
 S8: 100\*100\*20 E>0.5

<sup>27</sup> **Analog output**

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

<sup>29</sup> **Material and surface roughness**

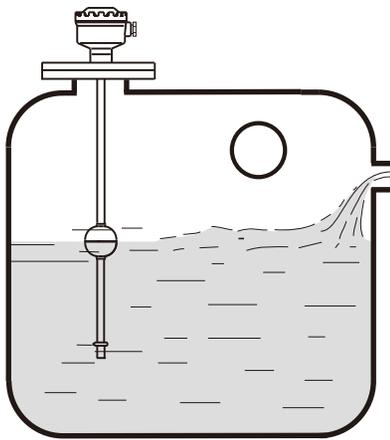
0: None  
 A: Ra < 0.3  
 B: Ra < 0.5  
 C: Ra < 0.8

<sup>30</sup> <sup>31</sup> <sup>32</sup> <sup>33</sup> **Length**

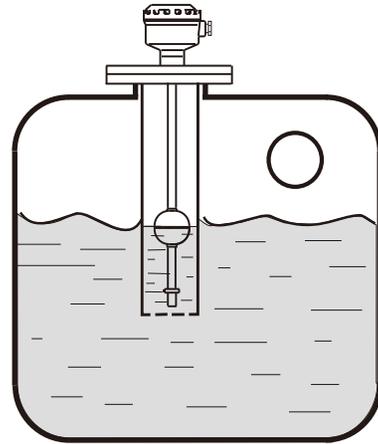
| Code      | Probe Length |
|-----------|--------------|
| 0150~A300 | 150~30000mm  |

# INSTALLATION

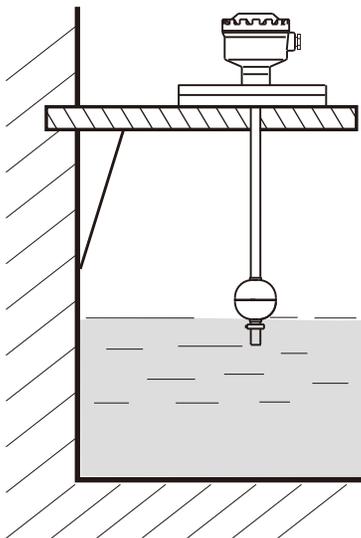
- ▶ The float level transmitter should be mounted far away from the inlet. Any rigorous liquid turbulence will produce error output signals.



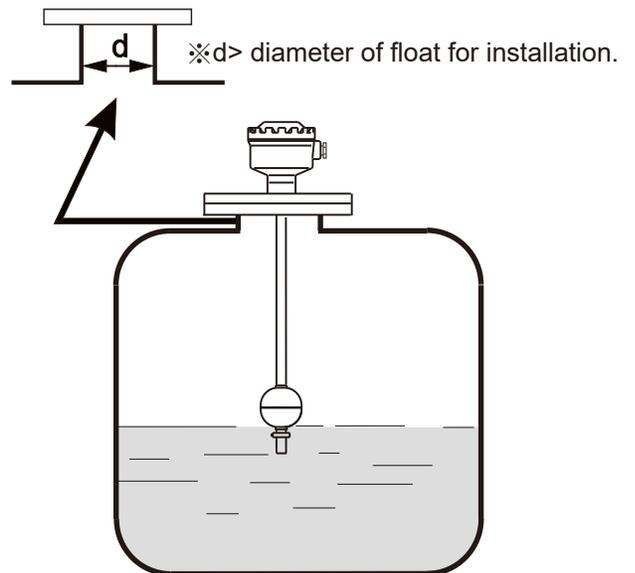
- ▶ A pipe shield or an equivalent device can help normalize the indicator actuation especially when an agitator is present.



- ▶ 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.



# Global Network



## ■ Head Quarter

- Taiwan  
**FineTek Co., Ltd. - Taipei Head Quarter**   
 No.16, Tzuchiang St., Tucheng Industrial Park  
 New Taipei City 236, Taiwan  
 TEL: 886-2-2269-6789  
 FAX: 886-2-2268-6682  
 EMAIL: info@fine-tek.com

## ■ North America

- California, U.S.  
**Aplus Finetek Sensor Inc. - US Office**  
 355 S. Lemon Ave, Suite D  
 Walnut, CA 91789  
 TEL: 1 909 598 2488  
 FAX: 1 909 598 3188  
 EMAIL: info@aplusfine.com

## ■ Europe

- Germany  
**FineTek GmbH - Germany Office**  
 Bei den Kämpen 26  
 21220 Seevetal-Ramelsloh, Germany  
 TEL: +49-(0)4185-8083-12  
 FAX: +49-(0)4185-8083-80  
 EMAIL: info@fine-tek.de

## ■ Asia

- China  
**Fine automation Co., Ltd. - Shanghai Factory**   
 No.451 DuHui Rd, MinHang District, Shanghai,  
 China 201109  
 TEL: 86-21-6490-7260  
 EMAIL: info.sh@fine-tek.com

- Singapore  
**FineTek Pte Ltd. - Singapore Office**  
 37 Kaki Bukit Place, Level 4 Singapore 416215  
 TEL: 65-6452-6340  
 EMAIL: info.sg@fine-tek.com

- Indonesia  
**PT. FineTek Automation Indonesia - Indonesia Office**   
 PERGUDANGAN TUNAS BITUNG  
 JL. Raya Serang KM. 13,8, Blok C3 No. 12&15,  
 Bitung Cikupa, Tangerang 15710  
 TEL: 62 (021)-2958-1688  
 EMAIL: info.id@fine-tek.com

- Mütec Instruments GmbH - Germany Office   
 Bei den Kämpen 26  
 21220 Seevetal-Ramelsloh, Germany  
 TEL: +49-(0)4185-8083-0  
 FAX: +49-(0)4185-8083-80  
 EMAIL: muetec@muetec.de



Distributor: