

Magnetic Float type level transmitter

Model : SMT4000 series

Spec. sheet no. SD04-01

Description

The SMT4000 series is a Magnetic float type level transmitter, which uses buoyancy to continuously measure the water level inside the vessel.

When a float designed/manufactured for the specific gravity of fluid moves up and down due to buoyancy, the Reed switch attached to the sensor detects magnetic in the float and changes its resistance value. You can measure the water level inside the vessel with the converted current value.



Specification

Part list	SMT4100 (General)	SMT4200 (High Temp.)
Enclosure type	Ex-proof - KCs, Ex d IIC T6 - IP66 @ Max. 80 °C Weather proof (IP66)	Ex-proof - KCs, Ex d IIC T6 - IP66 @ Max. 150 °C Weather proof (IP66)
Ambient Temp.	-25 ~ 65 °C	
Max. Temperature	Max. 80 °C	Max. 150 °C (With Cooling Fin)
Max. Pressure	20 kgf/cm ²	
Material	Housing : A.D.C 12 Float : 316L SS Wetted parts : 304SS, 304L SS, 316SS, 316L SS, Etc.	
Applicable Specific Gravity	0.8 ~ 1.4 (For Mounting size 1") 0.6 ~ 1.1 (For Mounting size 2") 0.7 ~ 1.4 (For Mounting size 3" & 4")	
Resolution	For Mounting size 1" : 5 mm For Mounting size 2" to 4" : 10 mm	
Power supply	DC 24V (DC 17~36 V)	
Out Put	DC 4~20 mA (2-Wire) DC 3.6 ~ 21 mA @ NAMUR NE43	
Cable Entry	M20 X 1.5P Etc.	
Max. Length	1500 mm (For 1" Float) 3000 mm (For 2" Float) 5000 mm (For 3" and 4" Float)	

1. Base model

- SMT4110** General / Non-Display /
Magnetic Float type Level transmitter
- SMT4120** General / Display 5-digit /
Magnetic Float type Level transmitter

2. Enclosure

- W1** Weather-proof (IP66, Max temp. 80 °C)
- E1** Ex-proof (KCs, Ex d IIC T6 IP66, Max temp. 80 °C)

3. Process connection & Float material

- 3** 304SS & 316L SS
- 4** 304L SS & 316L SS
- 5** 316SS & 316L SS
- 6** 316L SS & 316L SS
- Z** Other

4. Process connection / Float size

- A00** ANSI/ASME 1" 150Lb RF / \varnothing 28 X 28L
- A01** ANSI/ASME 2" 150Lb RF / \varnothing 48 X 50L
- A02** ANSI/ASME 3" 150Lb RF / \varnothing 65 X 90L
- A03** ANSI/ASME 4" 150Lb RF / \varnothing 65 X 90L
- A04** ANSI/ASME 2" 150Lb FF / \varnothing 48 X 50L
- A05** ANSI/ASME 3" 150Lb FF / \varnothing 65 X 90L
- A06** ANSI/ASME 4" 150Lb FF / \varnothing 65 X 90L
- A07** ANSI/ASME 1" 150Lb FF / \varnothing 28 X 28L
- J00** JIS/KS 10K 25A RF / \varnothing 28 X 28L
- J01** JIS/KS 10K 50A RF / \varnothing 48 X 50L
- J02** JIS/KS 10K 80A RF / \varnothing 65 X 90L
- J03** JIS/KS 10K 100A RF / \varnothing 65 X 90L
- J04** JIS/KS 10K 50A FF / \varnothing 48 X 50L
- J05** JIS/KS 10K 80A FF / \varnothing 65 X 90L
- J06** JIS/KS 10K 100A FF / \varnothing 65 X 90L
- J07** JIS/KS 10K 25A FF / \varnothing 28 X 28L
- S01** (N)PT 2" (M) / \varnothing 48 X 50L
- NNN** None (For Magnetic Level gauge mount)
- ZZZ** Etc.

5. Conduit connection**(Ex-proof adapter should be applied to Ex-proof)**

- C1** M20 X 1.5P (S.T.D.)
- C2** ½" NPT(F) w/Adapter
- C3** ¾" NPT(F) w/Adapter
- C4** ½" PF(F) w/Adapter
- C5** ¾" PF(F) w/Adapter
- C6** ½" NPT(F) w/(Ex d) Adapter
- C7** ¾" NPT(F) w/(Ex d) Adapter
- C8** ½" PF(F) w/(Ex d) Adapter
- C9** ¾" PF(F) w/(Ex d) Adapter
- ZZ** Etc.

6. Measuring range (mm)

- R00** 100~299 (Only 1" or 25A)
- R01** 300~500
- R02** 501~1000
- R03** 1001~1500
- R04** 1501~2000
- R05** 2001~2500
- R06** 2501~3000
- R07** 3001~3500
- R08** 3501~4000
- R09** 4001~4500
- R10** 4501~5000

* Measuring range will be determined based on the Max. Length.

Sample ordering code

1	2	3	4	5	6
SMT4110	W1	3	A01	C1	R00



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Ordering code

1. Base model

- SMT4210** High Temperature / Non-Display /
Magnetic Float type Level transmitter
- SMT4220** High Temperature / Display 5-digit /
Magnetic Float type Level transmitter

2. Enclosure

- W2** Weather-proof
(IP66, Max Temp. 150 °C, w/Cooling fin.)
- E2** Ex-proof
(KCs, Ex d IIC T6 IP66, Max Temp. 150 °C, w/Cooling fin.)

3. Process connection & Float material

- 3** 304SS & 316L SS
- 4** 304L SS & 316L SS
- 5** 316SS & 316L SS
- 6** 316L SS & 316L SS
- Z** Other

4. Process connection / Float size

- A00** ANSI/ASME 1" 150Lb RF / ϕ 28 X 28L
- A01** ANSI/ASME 2" 150Lb RF / ϕ 48 X 50L
- A02** ANSI/ASME 3" 150Lb RF / ϕ 65 X 90L
- A03** ANSI/ASME 4" 150Lb RF / ϕ 65 X 90L
- A04** ANSI/ASME 2" 150Lb FF / ϕ 48 X 50L
- A05** ANSI/ASME 3" 150Lb FF / ϕ 65 X 90L
- A06** ANSI/ASME 4" 150Lb FF / ϕ 65 X 90L
- A07** ANSI/ASME 1" 150Lb FF / ϕ 28 X 28L
- J00** JIS/KS 10K 25A RF / ϕ 28 X 28L
- J01** JIS/KS 10K 50A RF / ϕ 48 X 50L
- J02** JIS/KS 10K 80A RF / ϕ 65 X 90L
- J03** JIS/KS 10K 100A RF / ϕ 65 X 90L
- J04** JIS/KS 10K 50A FF / ϕ 48 X 50L
- J05** JIS/KS 10K 80A FF / ϕ 65 X 90L
- J06** JIS/KS 10K 100A FF / ϕ 65 X 90L
- J07** JIS/KS 10K 25A FF / ϕ 28 X 28L
- S01** (N)PT 2" (M) / ϕ 48 X 50L
- NNN** None (For Magnetic Level gauge mount)
- ZZZ** Etc.

5. Conduit connection

(Ex-proof adapter should be applied to Ex-proof)

- C1** M20 X 1.5P (S.T.D.)
- C2** 1/2" NPT(F) w/Adapter
- C3** 3/4" NPT(F) w/Adapter
- C4** 1/2" PF(F) w/Adapter
- C5** 3/4" PF(F) w/Adapter
- C6** 1/2" NPT(F) w/(Ex d) Adapter
- C7** 3/4" NPT(F) w/(Ex d) Adapter
- C8** 1/2" PF(F) w/(Ex d) Adapter
- C9** 3/4" PF(F) w/(Ex d) Adapter
- ZZ** Etc.

6. Measuring range (mm)

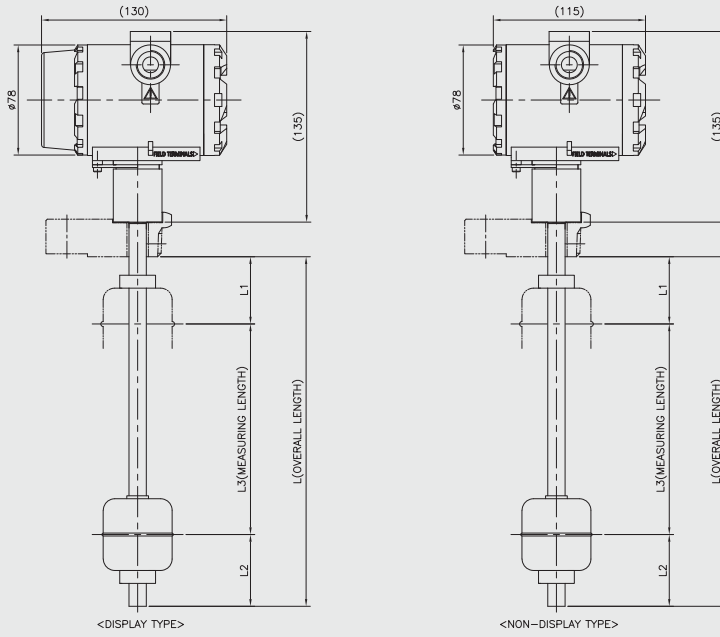
- R00** 100~299 (Only 1" or 25A)
- R01** 300~500
- R02** 501~1000
- R03** 1001~1500
- R04** 1501~2000
- R05** 2001~2500
- R06** 2501~3000
- R07** 3001~3500
- R08** 3501~4000
- R09** 4001~4500
- R10** 4501~5000

* Measuring range will be determined based on the Max. Length.

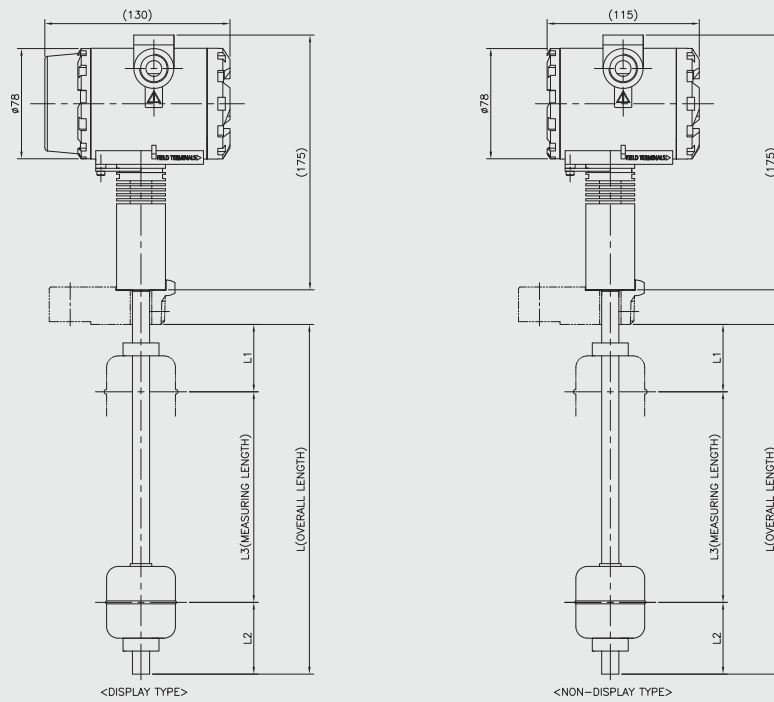
Sample ordering code

1	2	3	4	5	6
SMT4210	W2	3	A01	C1	R00

Dimension



SMT 4100 SER.



SMT 4200 SER.

*Dimension Table

Mounting Size	Float Size (mm)	Min. L1 (mm)	Min. L2 (mm)
1" (25A)	ø28 * H28	50	30
2" (50A)	ø48 * H50	50	50
3"(80A) & 4"(100A)	ø65 * H90	100	80