

# Level Transmitters

## Magnetic Float Type Level Transmitter

Continuous liquid level meter, display, with four separated adjustable alarm points, and Output signal for remote level transmitter.



### STANDARD SPECIFICATIONS

- Connection size : JIS 5K 80A, 100A  
With float chamber type: JIS 5K 100A only
- Max. pressure : 10kg/cm<sup>2</sup>
- Max. temperature - SUS 316 float : 100°C  
- RESIN float : 70°C  
- P.V.C float : 60°C
- Min. Sp. Gr - SUS 316 float : 0.85  
- RESIN float : 0.6  
- P.V.C float : 0.7
- Measuring range : Max. 5m (Option : up to 30m)
- Sensor resistance : about 1kΩ
- Max. current : 25mA
- Power source : 12~32VDC
- Output : 4~20mA DC
- 2 Wire system balancing type
- Cable entry : 15b
- Enclosure : Weather proof/IP56
- Material - Housing : AC and SUS 304  
- Flange : Carbon steel  
- Float : SUS 304  
- Guide pipe : SUS 304
- Accuracy : ± 1.5 % of F.S

### OPERATING PRINCIPLE

Reed switches arranged with a certain pitch inside a pipe as shown on fig. 1, activated by means of the magnet inside float, the detecting circuit electric equivalent to the potentiometer is constituted. By adjusting the size and power of the magnet inside the float so as one or two reed switches could be operated in any time. Resolution of the potentiometer would become 1/2 of the pitch of the reed switches. Consequently, when the pitch is 10mm, a resolution of 5mm can be obtained. A necessary accuracy can be ensured in the FLT-100 series by modifying the pitch of the reed switches and the divided number of the measuring range conforming with the total measuring range.

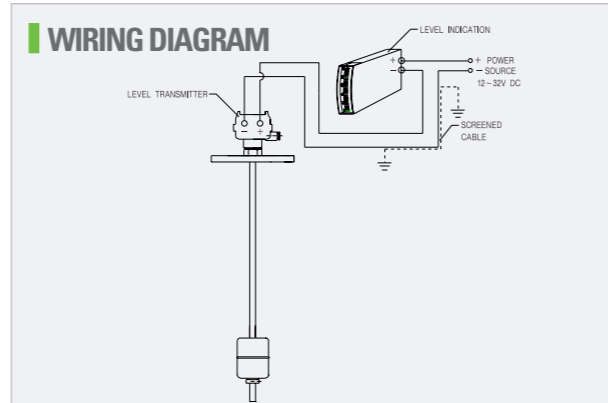
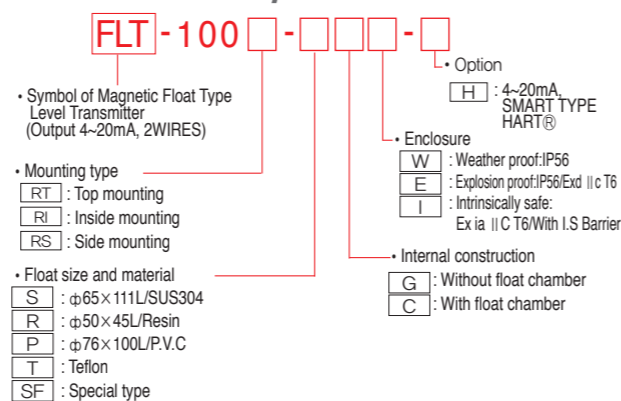
### FEATURES

- Consistent accuracy regardless of the tank depth.
- High accuracy.
- Service-proven reliability.
- Simple installation.
- Magnet-float type in which the construction is simple.
- The maintenance is easy.
- Only single 2core cable.
- Wide measuring range.

### APPLICATIONS

Level measurement continuously indicates the actual level and can provide an analogue and digital indication as well as operation of switching contacts predetermined levels. Typical applications are the measurement of water, H.F.O, D.O, L.O, Vegetable oil, and others.

### Model number code system



### OUTLINE / DIMENSIONS

