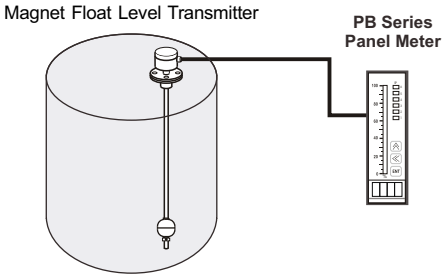
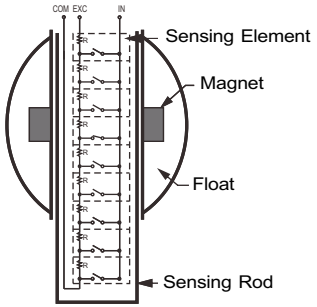
FG MAGNETIC FLOAT LEVEL TRANSMITTER OPERATION MANUAL

PRINCIPLE

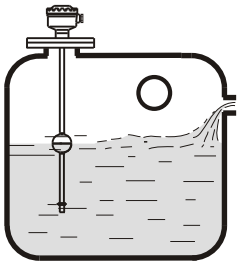
The "Magnet Float Level Transmitter" is composed of the float and sensing rod (shown as below). As the float raised or lowered by liquid level, the sensing rod will have a resistance output, which is directly proportional to the liquid level. Also, the float level indicator can be equipped with the converter to produce a 0/4~20mA signal.



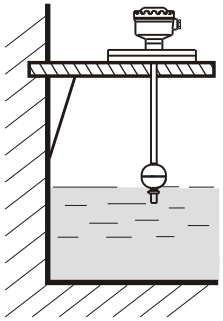


INSTALLATION

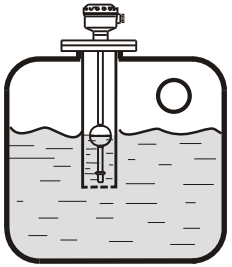
The float level transmitter should be mounted away from liquid inlet, any strong liquid fluctuation will produce output signal errors.



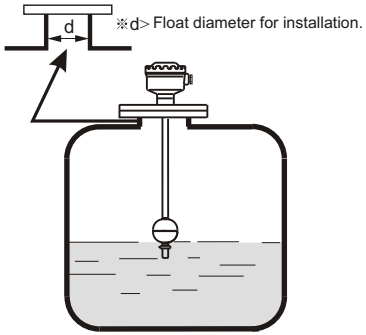
Use an angle bracket, when the level transmitter is mounted in a concrete walled tank as figure below.



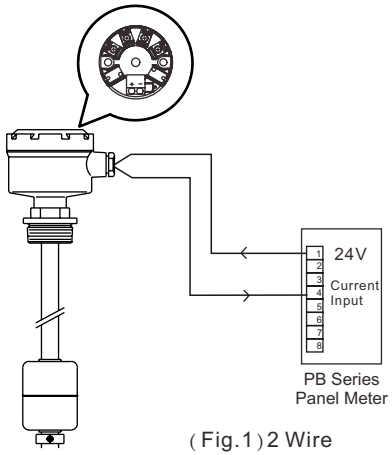
Use a plate shield, pipe shield or equivalent device to reduce the transmitter actuation when used for any agitator application.



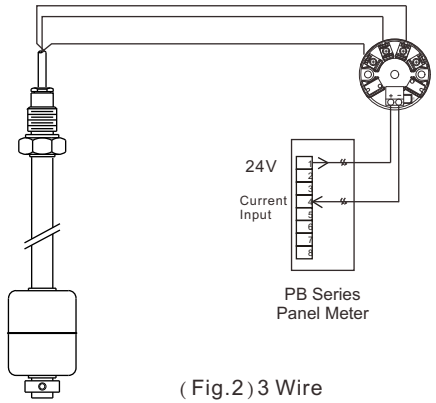
The standpipe should be selected with a diameter (d) larger than the float to allow installation.



WIRING



(Fig.1) 2 Wire

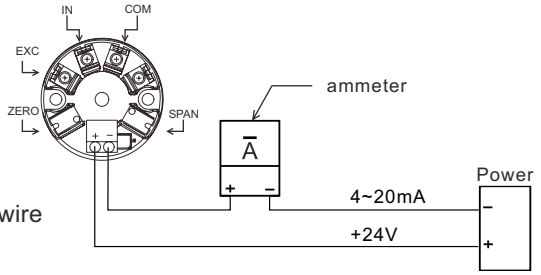


(Fig.2) 3 Wire

CALIBRATION

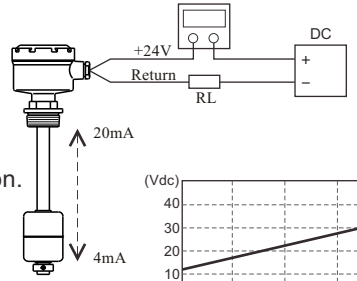
Calibration is done before shipment. Please proceed the following if needed.

1. As indicated in Fig. below, connect in series with ammeter. (Power: 24Vdc)
2. Move the float to bottom level. Adjust"Zero" until ammeter shows 4mA.
3. Move the float to top level. Adjust "Span" until ammeter shows 20mA.
4. Repeat 2 and 3 to optimize 4-20mA setting.
5. The above-mentioned 1-4 are confined in 2-wire calibration, not in 3-wire.

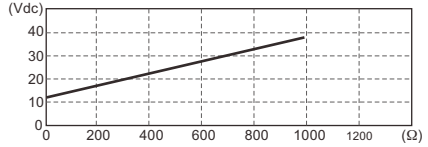


TROUBLE SHOOTING

1. Check the normal of wiring, power and circle resistance.
2. As indicated in Fig. 3, check if the ammeter shows 4mA when float is at bottom level and 20mA when float is at top level.
3. Please contact us if it still doesn't function.
4. The extension of transmissive distance and internal resistance of meter affect the function of 4-20mA output signal. When circle resistance increases, please adjust power supply. (Fig. 4)



(Fig.3)



(Fig.4) Mimimum Vdc and Ω

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