

Float Operator Level Transmitters



Features

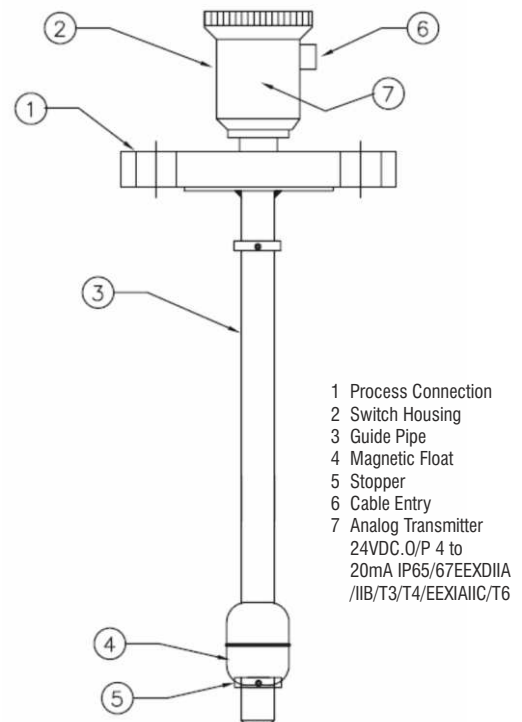
- Displacer type level transmitter with application upto 100 bar and 350 deg cent application
- Heavy walled floats for critical application
- Tight sealing versions for float sensors with level transmitter to enable correct application solutions, with sealing internals at 10(-3/-4) mbarltr/sec available
- Insertion length defined for 5000mm, other lengths on request and confirmation on design
- Durability defined on sealing and pressure and temperature application
- Improved reliability with dual opposed magnet design which provides snap action
- Applicable with various versions of MOC's depending on pressure and temperature, versions with Stainless and steel, hastelloy, monel, PTFE, PP, Titanium available
- Versions with flange, screwed, welded available
- IBR versions available
- Applicable for H2S, NACE, certified
- Level transmitter is CCOE approved and certified for IP67, IP65
- Certified for group IIA/IIB, IIC
- Enclosure at die cast aluminium and SS available
- Application with PTFE lined coating at special 1.6 mm thickness and PTFE floats for critical media available
- Versions with ATEX and FM certified available on request
- Local Display



Application in petrochemical complex with varied specific gravity

Concept and Principle of Operation

This is top mounted displacer type level transmitter provided continues set points. It uses float that glides on the surface of liquids. This level switch consists of Terminal Enclosure, Float Stem with Reed Switches and resistor and Float with magnets assembled inside. This type of level transmitter can be used for continuous level controls for both closed and open tanks. When level rises float travels with the liquid on the float stem and when it comes in contact with the reed switches, due to magnetic force reed switch changes its contact. This type of level transmitter is used for lengths upto 5000 mm, other lengths on request and confirmation on design. It is recommended to use perforated still well for lengths more than 3000 mm.



G A Drawing for assembly and mounting

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Technical Specifications: Table-1 Material of Construction

Float	PTFE, PP, PVDF, SS316, SS304, SS316L, SS304L, Monel, Titanium, Hastelloy
Float stem	PTFE lined SS, PP lined SS, PVDF lined SS, SS316, SS304, SS316L, SS304L, Monel, Titanium, Hastelloy
Flange	PTFE, PP, PVDF, SS316, SS304, SS316L, SS304L, Monel, Titanium, Cast Carbon Steel, Hastelloy
Switch enclosure	Die cast aluminium, SS304, SS316, SS316L
Cable gland	Brass, PBS Plastic, SS316, SS304, SS316L
Stopper	Metal stoppers of relevant material compatible to media

Technical Specifications: Table-2

Float	38X200mm upto 60X160mm and upto 68X100mm
Float	Specific gravity = 0.4, till 1.2
Float Stem	500mm to 5000mm, other lengths on request and confirmation on design
Float stem width	12.5mm and 16mm
Flange	2" till 6", ANSI RF, FF, 125-250AARH, DIN std DN50 till 150, BS10TabE, socket weld, butt weld, weld neck flange in ANSI
Float	Pressure design till 40 kg / 60 kg / 100 kg
Flange rating	max rating ANSI 600# and DN PN 100
Cable gland	Double compression, metal cable normal glands, 1/2" NPT F, 3/4" ET, M20, PG 13.5, PG16
Flange	Forged, cast versions, radiography level - 1 / 2 versions available
Float weight	60gms to 200 gms depending specific gravity
Float stem weight	Max upto 200 gms depending on size / length
Flange weight	500gms till 30 kg depending float dimensions which inturn would density of media and other accessories
Temperature application	-100 deg cent till 350 deg cent
Pressure application	Upto 100 kg/cm ² g
Analog transmitter output	4- 20 m A
Analog transmitter principle	Reed switch
Analog transmitter power supply	230 VAC, 5 A or 24VDC, 0.5 A
Analog transmitter out put in split range	Split range of 4...12 m A and 12...20 m A, others on request
Analog transmitter internal resistance	200M ohms
Transmitter accuracy	3%
Transmitter repeatability	0.15%
Transmitter certifications	CCOE, FM, ATEX, CE (versions applicability on request)
Transmitter enclosure	EExia IICT6, EExd IIA/IIB, EExd IIC and IP65
HART transmitter principle	Reed switch, LVDT
HART transmitter accuracy	1.5 %
HART transmitter output in split range	Adjustable as per HART software
HART programmable software	With serial interface adapter with HART interface to calibrate
HART transmitter feature	SIL2 certified
HART transmitter feature	Slave circuitry operation with MASTER as an additional option on request
HART output	4 to 20 m A, other on request
HART transmitter internal resistance	440 ohms
HART transmitter enclosure	EExia IICT6, EExd IIA/IIB, EExd IIC and IP65
HART transmitter certifications	CCOE, FM, ATEX, CE (Versions applicability on request)