

TOP MOUNTED LEVEL TRANSMITTER



It is a simple and reliable technique for continuous level indication and control of any liquid, chemically compatible with the (sensor) material, unaffected by electrical conductivity, temperature, pressure or viscosity. The float is designed for variety of liquids and its unique self cleaning construction is well suited for even sticky or dirty environments with no float hang-ups.

Construction & Operation:-

It consists of a float & guide tube assembly in non-magnetic material to achieve undisturbed flux. A chain of closely spaced glass encapsulated reed switches & resistors are placed inside the guide tube (fig 1). During rise and fall of liquid level, the float moves & actuates a reed switch in the chain, through a magnet system within it and develops a proportional voltage. The operation is similar to a sliding resistance potentiometer. The sensed voltage is fed to the transmitter located in the enclosure for conversion to a signal of 4-20 mA, for use with PLC / DCS or KiT loop powered indicator (TLPI) or KiT level indicator controllers TLIC, TUI and T-SCN (fig 2).

SPECIFICATION:-

(Span) Min 270 mm (GTL 400 mm) Max 3770 mm (GTL 4000 mm)

Resolution : Standard ± 12 mm High ± 6 mm for float $\varnothing 75$ & 90mm only

Installation : Top

Enclosure : Cast Al, WP, IP-66 or Ex proof to Gr IIA & IIB or IIC

Conduit conn : PG 13.5 Polyamide (W-proof) or $\frac{1}{2}$ " NPT Brass (Ex-proof)

Wetted parts : SS304, SS316 or PP

Process connections : 2 $\frac{1}{2}$ " or 3" or 4" NB flanged to BS (option ANSI or DIN std) or Triclover flange (sanitary applications)

Output : DC 4-20 mA (isolated) or 1 to 5 VDC (optional)

Wiring system: 2 wire

Max load : 400 ohms

Max temperature : 80°C (PP)/100°C (metallic MOC), 150°C (Optional)

Max test pressure : 3 Kg/cm² (PP) / 10Kg/cm² (metallic MOC), 25 Kg/cm² (optional)

Special feature : Intrinsically safe to Ex ib Gr IIA-IIB T6 (with zener barrier 24VDC / 110mA)

Features:-

1. Continuous 'Float type' analog sensor, in materials,liquids.
2. Pre calibrated at factory - no field calibration required.
3. 4-20 mA, 2 wire processed output signal.
4. Resistive to most High resolution & Repeatability.
5. Adjustable, multiple alarm relays.
6. Customized lengths upto 5.5 meters.
7. Liquid level or liquid / liquid interface detection.

Intrinsically safe option available.