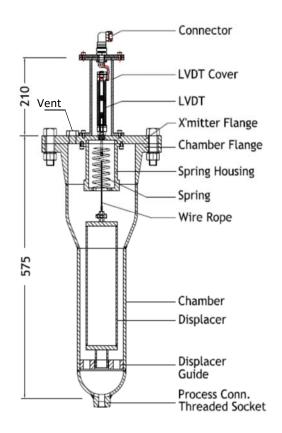
Displacer Level Transmitter with LVDT- 'DTL'



Level transmitter, works on Archimedes principle of buoyancy using displacer and LVDT technology alongwith microcontroller based remote electronics, suitable for radiated zone in nuclear power plants.

Fig 1





Salient Features

- Easy to install
- Resistance to vibration
- Radiation qualified
- Factory calibrated with isolated outputs of 3 nos.

Construction & Operation (fig 1)

It consists of a displacer attached to a LVDT core through spring housed in seal pipe and separate Microcontroller based signal convertor. According to change in liquid level, displacer moves in vertical motion due to change in buoyant force. The core attached to a displacer also moves within LVDT to generate resultant signal which is connected to signal convertor to provided three isolated outputs.

Specifications

Technology : LVDT Termination LVDT

Level Transmitter

Measuring Range : 250 mm (Higher range on request)
Transducer : LVDT (Radiation resistance qualified)

I/P Excitation Volt : 3 Vrms x 2.2 KHz frequency

Mechanical Stroke : ± 6 mm Sensitivity : 35 mV/V/mm

Accuracy : ± 5 mm (±2 mm on demand)

LVDT Cover : SS316L

Connector : 7 pin circular receptacle socket & right angle plug

Transmitter Flange : 4" NB ASME 150# RF

Spring : Inconel X750

Spring Housing : SS316L

Displacer : SS316L x Ø73 x 280 mm HT

Wire Rope : SS316L x Ø3 mm

Chamber bottom : SS316L x 4" Sch. 40 with dish end Chamber Flange : SS316L x 4"NB ASME 150# RF

Process Connection: SS316L x Flanged or Socket weld or Threaded socket

Vent Plug : ½" NPT Plug

Signal Convertor

Mounting : 19" Rack Mountable
Supply : 24 VDC ± 10 %
Input : Signal from LVDT

Supply for X'mitter : 3 Vrms x 2.2 KHz frequency

Output : 1. 0 to 10V DC (Null to one extreme position)

2. a) -10 to +10V DC (One extreme position other extreme position)

b) 0 to 10 V DC (Selectable thru jumper)3. 0 to 10V DC (Null to one extreme position)

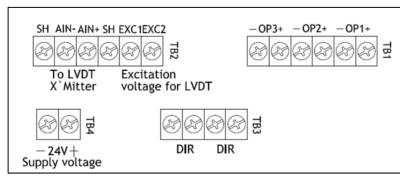
Accuracy : ± 0.2 % FS

Indication : Green LED – Power ON; 7 Segment LED Display- 4-1/2"

: Amber LED- DIR/ Red LED DIR

Zero and Span adjustment for each o/p and display.

Termination Signal Convertor



Applications –

Radioactive dirty water, clean water

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