

Techtrol Magnetostrictive Level Transmitter - MLT

Techtrol™
Innovating Level Controls Since 1984

Level transmitter, based on magnetostrictive principle with advanced microprocessor based sensing electronics, for accurate level and interface level measurement of liquids.

Construction & Operation :

It consists of magnetised float moving along the guide tube, containing a sensor system with electronics housed in an enclosure. A pulse of current sent over the sensor, creates a circular magnetic field which interacts with magnetic field generated by the float, to produce twisted pulse, traveling at sonic speed along the sensor wave guide and sensed by electronics. Time delay between starting of pulse and its return is measured and converted into 4-20mA o/p, which corresponds to float position / liquid level.

Salient Features :

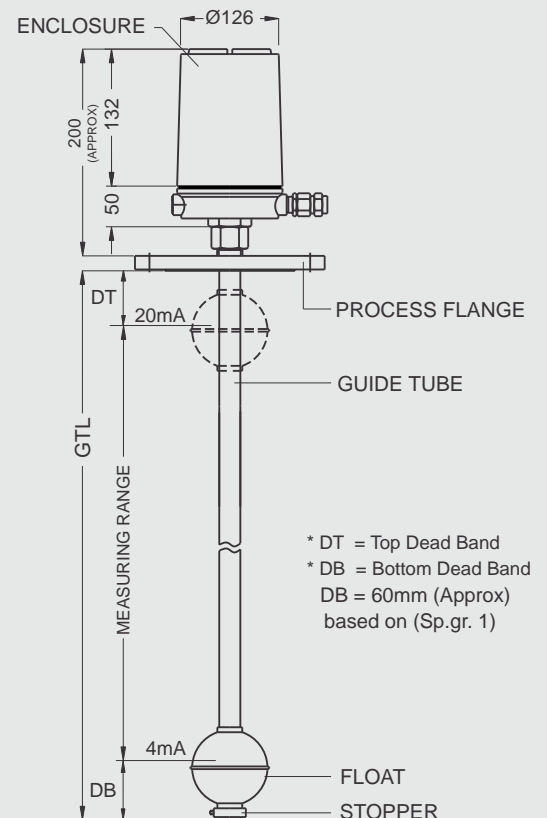
- ✓ High accuracy and resolution
- ✓ Impact and Vibration proof
- ✓ Easy to install
- ✓ Pre-calibrated at factory - no field calibration required.
- ✓ Installation in external chambers feasible
- ✓ ATEX certified enclosure (optional)

Specifications :

Enclosure x Cable Gland	: Cast Al WP IP66 x PG11 Ex Proof Gr IIB or IIC x 1/2" NPT
Process Connection	: Flanged or Screwed or Triclover (Sanitary applications)
MOC	: SS316
Float	: Ø75
Measuring Range (span)	: GTL-(DT+DB) min 400 (GTL 500mm) max 1700 (GTL 1800mm)
Min Sp Gr	: 0.6
Supply	: 20 to 28VDC
Output	: 4-20mA
Wiring system	: 4 wire
Accuracy	: 0.25% FS
Linearity	: ±0.5mm
Resolution	: 1mm
Repeatability	: 0.38mm
Power Consumption	: 4.8W
Max Pressure	: 20Kg/cm ²
Max Temperature	: 80°C

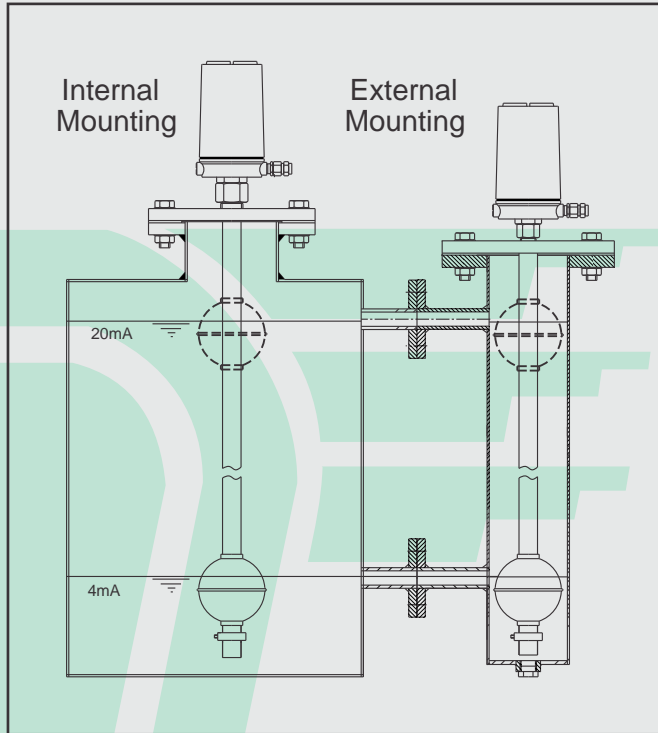


Construction :

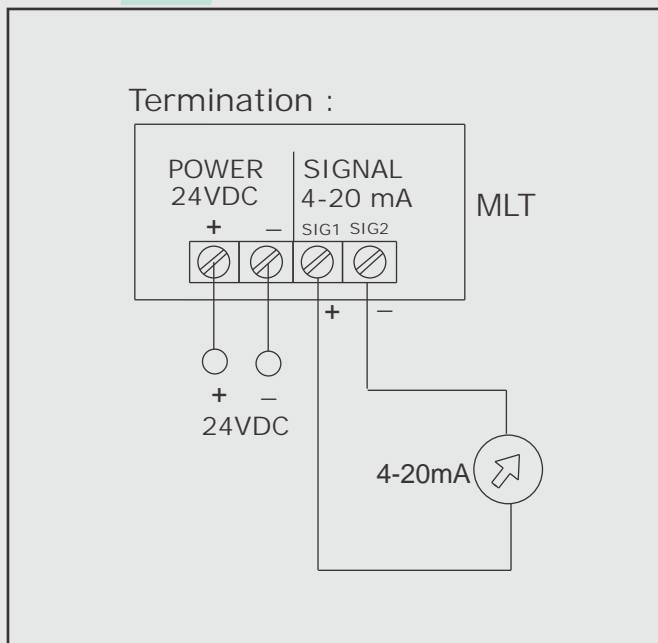


Installation :

Transmitter is installed vertically from top and mounted internally or externally. External mounting is adopted to overcome limited space within tank or where mechanical devices such as stirrer operate or where isolation tank is required for regular servicing.



Wiring :



Model Identification :

MLT -		
Enclosure		
Cast Al. WP IP66 x PG11	J	
Cast Al. Ex-P Gr IIB x 1/2"NPT	E	
Cast Al. Ex-P Gr IIC x 1/2"NPT	F	
Others	O	
MOC		
SS316	S	
Others	O	
Float x Process connection		
Ø 75 x 3" NB ANSI 150 # (w/o still well)		1
Ø 75 x 4" NB ANSI 150 # (with still well)		2
Ø 75 x 3/4" NPT (M) (w/o still well)		3
Others		O
Accessories		
Without		W
Counter flange with nuts, bolts & gasket		F
Ex-Cage		C
Still Well		S
Others		O

Industries :

Power Stations, Oil & Gas, Food , Alcohol & Beverages and Chemical & Pharmaceutical Industries.

Applications :

Custody Transfer (Inventory management), Process Tank Leakage Detection, Separators, Surge & Batch Tanks, Gas Chillers, Alkylation Units and all types of Storage & Process Vessels, LPG, Natural Gas and Propane.

Ordering Information :

Model No along with Service liquid, its Sp.gr, Op.Temp & Pressure and Tank Dimensions

All dimensions in mm except specified