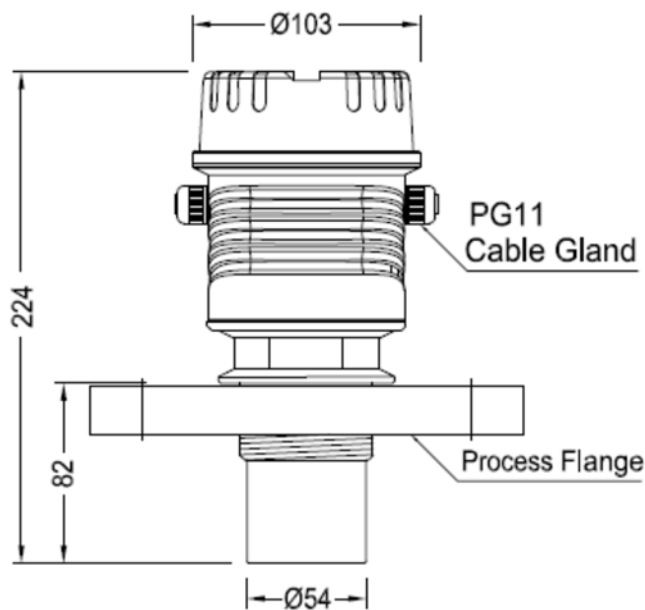


TECHTROL ULTRASONIC LEVEL TRANSMITTER FOR LIQUIDS - 'ULTRATROL'

A non-contact type transmitter for continuous level measurement of liquids in tanks or reservoirs.



Schematic & Dimensions

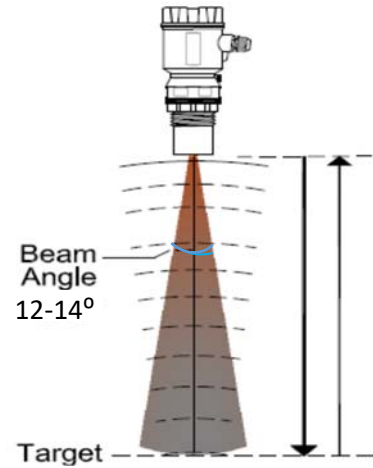


Salient Features

- Compact & easy to install
- No moving parts & minimum maintenance
- User friendly program through built-in keys & display
- Easy to calibrate without process medium

Construction & Working

It consists of an ultrasonic transducer integral with microcontroller based electronics housed in an enclosure. The ultrasonic pulses are emitted from the transducer towards the liquid surface and reflected back to the sensor. This time of flight is measured by microcontroller based electronics to provide 4-20 mA output.

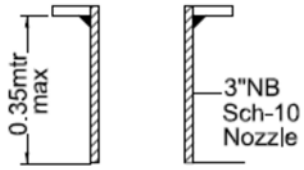


Operating Principle

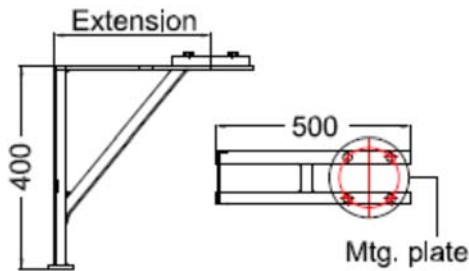
Specifications

Model No.	Ultratrol - 1	Ultratrol - 2
Range	0.4 to 5 mtrs,	0.4 to 10 mtrs
Blanking Distance	0.4 m	
Beam Angle	12° to 14° (full angle)	
Power Supply	24 VDC + 10 %	
Power Consumption	<1 W	
Analog Output	4 to 20 mA, 2 wire	
Max. Load	<400 Ω @ 24 V DC	
Display	LCD	
Indication	4 digits (level value)	
Accuracy/Resolution	± 0.5 % FSD/ 1mm	
Transducer MOC	ABS, IP68	
Enclosure	ABS, IP65	
Cable Gland	PG11, Nylon	
Process Connection	2" BSP (M) x Flange 3"NB ASME 150# PP	
Optg. Temperature	-20 ~ 70°C	
Max. Optg. Pressure	1 bar	
Accessories (Optional)	Transmitter Mounting Bracket (CS), Flanged Nozzle (CS) Canopy (FRP), Flootation Cell Assembly	

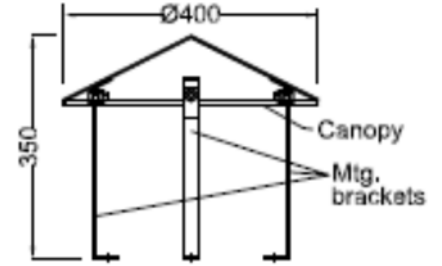
Mounting Accessories



1) Flanged Nozzle (CS) 3"
For Closed Tanks

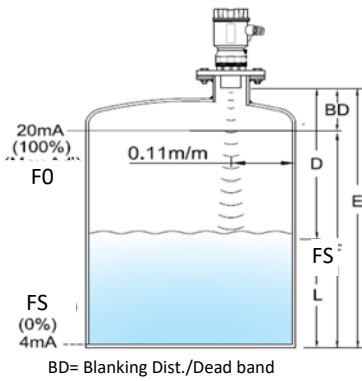


2) Transmitter Mounting Bracket (CS)
For Open Tanks

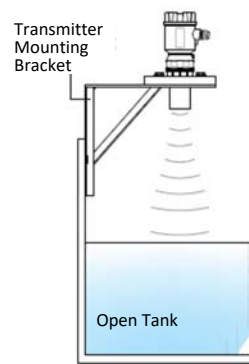
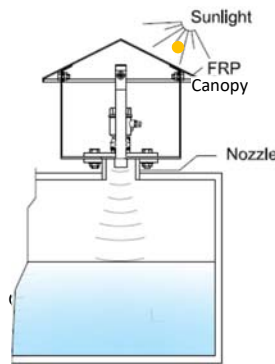


3) Canopy (FRP)
For protection of Electronics from direct sunlight

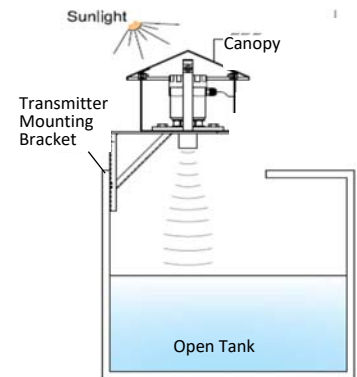
Installation



Closed Tank with Flanged Nozzle



Open Tank with Mounting Bracket



Level Indicators & Controller for Continuous Indication & Control -

Available in panel or wall mounting version. Refer individual catalog for further details.



'TLIC' Panel mtd.
Level Indicator Controller



'TUIC' Panel mtd.
Universal Indicator Controller



LCD Display



LED Display

'LP-Cator' Wall mtd.
Loop Powered Indicator

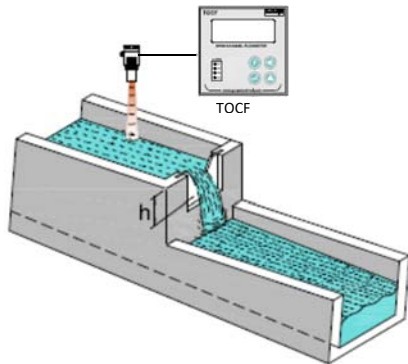
Services

Raw, Waste, Effluent, Sewage, Filtered, Treated and Cooling Water and Slurry in WTPs, ETPs or STPs

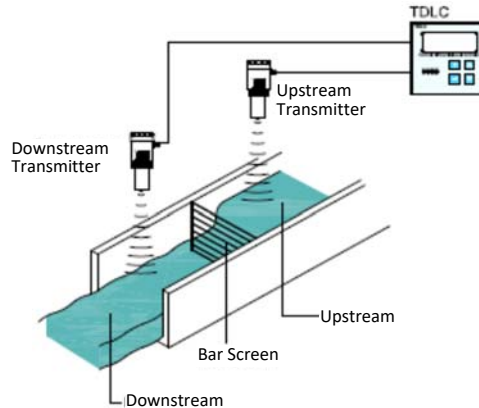
CAUTION: Ultrasonic Transmitter is not recommended for fuming or foaming liquids

Applications

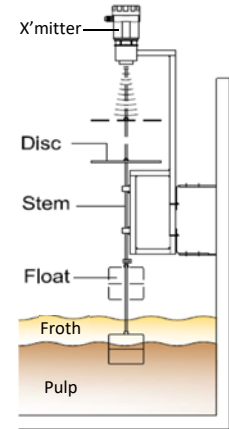
1. Level measurement in Open or Closed Tanks/ Reservoirs, Basins, Sumps, Canals and Rivers
2. Open Channel Flow (Rate of Flow) Measurement
3. Differential Level Control for bar screen automation / Loss of Head
4. Level measurement of liquids with froth or foam



Open Channel Flow Measurement in Flumes/Weirs



Differential Level Measurement for Bar Screen using two Ultrasonic Transmitter



Level measurement of liquids with froth or foam

Model Identification

	Ultratrol -	1	1
1. Range			
0.4 to 5 mtrs		1	
0.4 to 10 mtrs		2	
2. Process Connection			
3" NB ASME 150# Flange , PP			1
Others			0

Ordering Information

Model No. alongwith Accessories and Indicator Controllers if required x Liquid x Measuring Range
x Operating Temperature & Pressure

PUNE TECHTROL PRIVATE LIMITED

CIN: U31909PN1991PTC063403



Regd. & Sales: S-18, MIDC Bhosari, Pune - 411026, India
+91-20-66342900 | ho@punetechtrol.com

Works: J-52/7, MIDC Bhosari, Pune - 411026, India
+91-20-67313600 | https://www.punetechtrol.com