

Techtrol Ultrasonic Level Transmitter for Liquids - 'Ultratrol'



It is a non-contact type transmitter for level or distance measurement.

Salient Features :

- ☑ Compact & easy to install
- ☑ Integral unit with 4 digit LCD display
- ☑ Intelligent echo curve facility
- ☑ Calibration/programming through built-in keys
- ☑ Open channel flow measurement
- ☑ Interface liquid level measurement (foaming liquid)

Construction & Operation :

It consists of an ultrasonic transducer integral with microcontroller based electronics housed in an enclosure. Ultrasonic pulses emitted from the transducer to the target are reflected back and sensed by the electronics to provide 4-20mA current output.

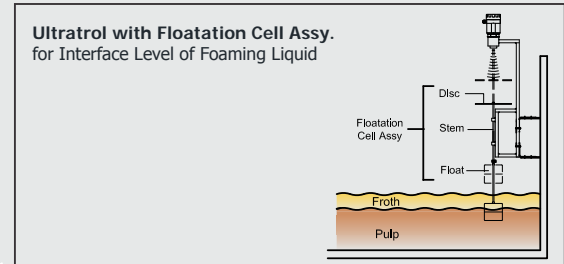
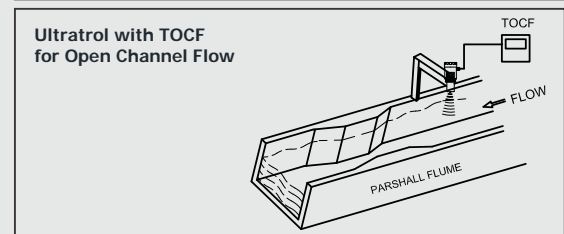
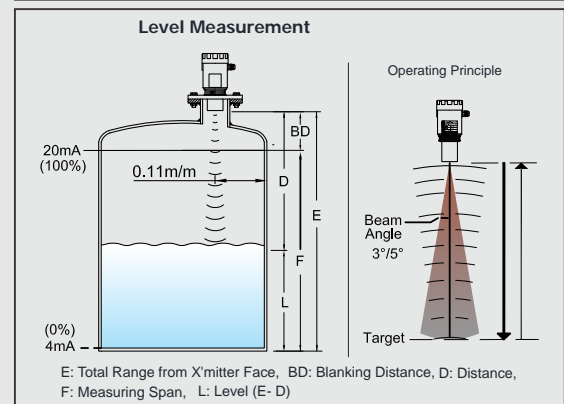
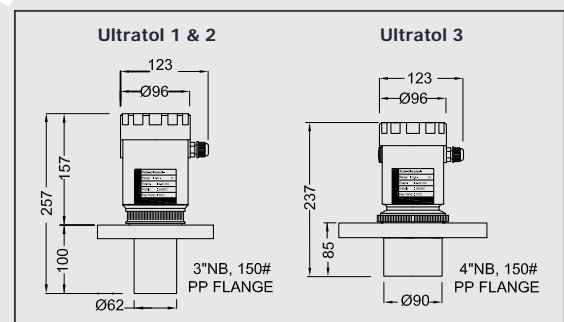
Specifications :

- Measuring Mode : Level, Distance
 Measuring Range
 Ultratrol 1 : 0.4 to 5mtrs
 Ultratrol 2 : 0.4 to 10mtrs
 Ultratrol 3 : 0.5 to 12mtrs
 Blanking Dist /Beam Angle
 Ultratrol 1 & 2 : 400mm / $\pm 5^\circ$
 Ultratrol 3 : 500mm / $\pm 3^\circ$
 Power Supply : 16-30 VDC
 Analog Output : 4-20mA, 2 wire
 Max. Load : 250 Ohms
 Display : Integral 4 digit, dot matrix LCD
 Accuracy : +/- 0.5% FSD
 Enclosure : ABS with polycarbonate window x IP65
 Transducer MOC : 1) Glass reinforced nylon 66 completely sealed
 2) PTFE
 Cable Gland : M20 x 1.5mm
 Max. Cable Run : 100 mtrs
 Process Conn. : PP Flange 3"NB (Ultratrol 1&2), 4"NB (Ultratrol 3)
 Optg. Temp. : -40 to 70°C
 Optg. Pressure : <1 bar

Techtrol Display Instruments :

- LP-Cator: Indication on LCD (Loop powered)
 TLIC : Remote Level Indication on seven segment LEDs & control through relay output (Analog)
 TLICP : Remote Level Indication on seven segment LEDs & control through programmable relay output (Microcontroller based)
 TUIC : Remote Level & Volume indication on LCD & control through programmable relay output (Microcontroller based)
 TOCF : Flow Indication & Totaliser on LCD & control through programmable relay outout (Microcontroller based) for open channel Parshall Flume, V-notch & Rectangular Weir

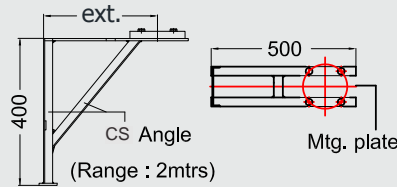
Refer respective catalogs for more information



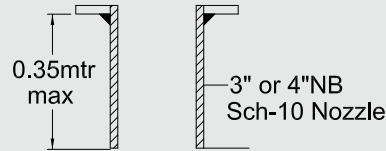
Accessories :

Float Cell Assy. Mounting Brackets (CS), Flanged Nozzle (CS), Canopy (FRP)

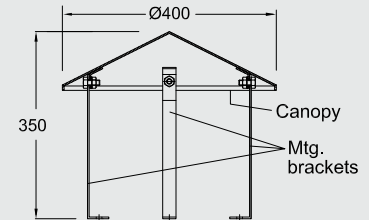
Mounting Brackets
for easy installation on open tanks



Flanged Nozzle
for easy installation on closed tanks

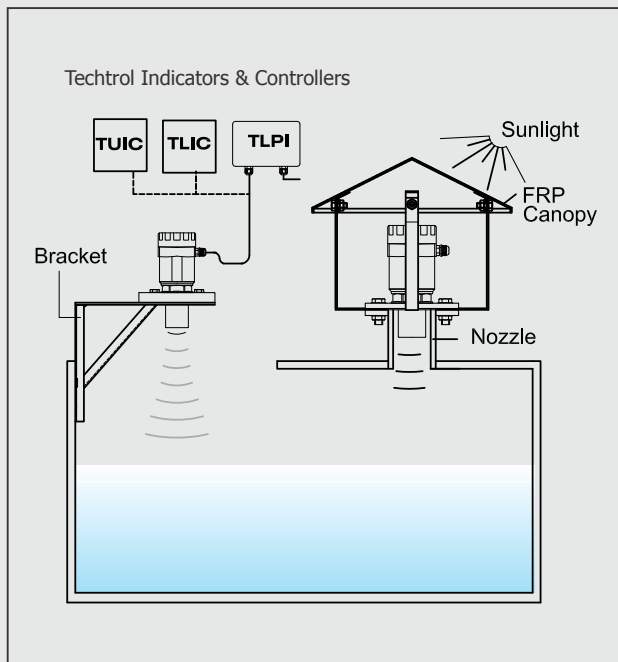


FRP Canopy
for protection of LCD/Electronics
from direct sunlight for
(outdoor installations)



Installation :

Installation depicting with various accessories :



Services :

Ultratrol - Raw / Waste / Fire / Sewage / Effluent Water, Alum Solution, Slurry, Sludge, Caustic Alkali, H2SO4 (98%), Acid, Milk, Oil, Coolant Lime

Applications :

Storage Tanks, Filter Beds, Scrubber, Flotation Cells, Water / Waste Water Treatment, Nuclear/Thermal Power Plants, Effluent Treatment Plants, Canals and Irrigation Systems.

Model Identification :

ULTRATROL -					
Range					
5 mtrs	_____	1			
10 mtrs	_____	2			
12 mtrs	_____	3			
X'ducer MOC					
Glass reinforced Nylon 66	_____	P			
PTFE	_____	T			
Process Flange					
3"NB, ANSI 150# x PP (Ultratrol 1&2)	_____	1			
4"NB, ANSI 150# x PP (Ultratrol 1,2&3)	_____	2			
Others	_____	0			
Display Instruments					
Not Provided	_____				W
LP-Cator	_____				L
TLIC	_____				C
TLICP	_____				I
TUIC	_____				U
TOCF	_____				F
Others	_____				O

Accessories (to be ordered separately)

1. Float Cell Assy.
2. CS Mtg. Bracket (500 or 1000 mm)
3. CS Flanged Nozzle (3"NB or 4"NB)
4. FRP Canopy
5. Signal Cable, 2 core, 1mm² PVC screened pair (in mtrs)

Ordering Information :

1. Model no. x Liquid x Operating Temperature & Pressure
2. Required accessories

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Custom built specs./options available on demand.

We reserve the right to modify design and specifications without prior notice.



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R A T E D

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