

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

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) PU with ABS shield (Non corrosive liquids)
2) PTFE with ABS shield (Corrosive liquids)

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 Indicator & Controller (Optional) for following applications

TLPI : Indication on LCD (Loop powered)

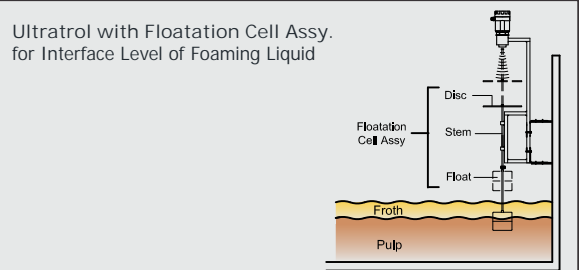
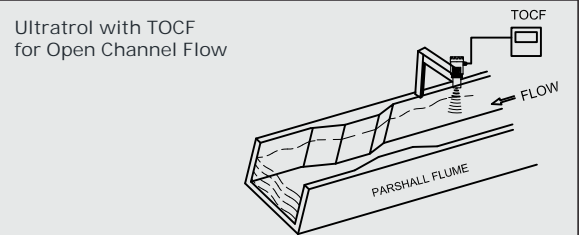
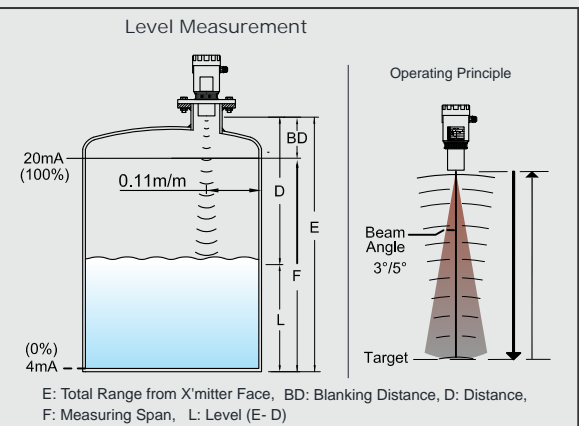
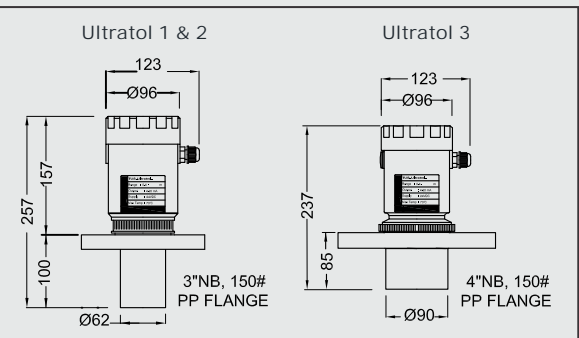
TLIC : Remote Level Indication on seven segment LEDs & control through relay output (Analog)

TLICP : Remote Level Indication on seven segment LEDs & control through programmable relay output (Microcontroller)

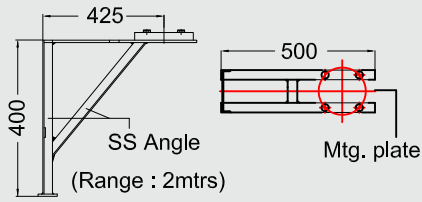
TUIC : Remote Level & Volume indication on LCD & control through programmable relay output (Microcontroller)

TOFI : Flow Indication & Totaliser on LCD & control through programmable relay output (Microcontroller) for open channel Parshall Flume, V-notch & Rectangular Weir

Refer respective catalogs for more information

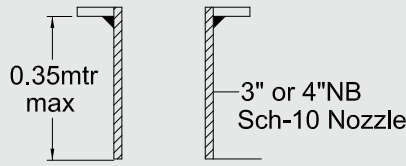


Bracket



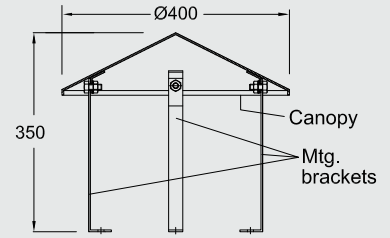
Easy installation on open tanks

Nozzle



Easy installation on closed tanks.

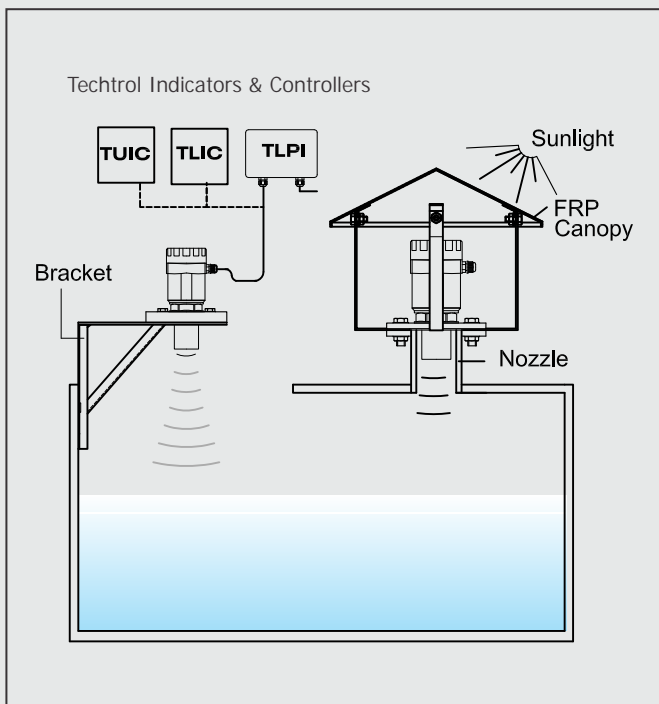
FRP Canopy



Protects LCD/Electronics from direct sunlight for outdoor installations

Installation :

Installation depicting with various accessories :



Model Identification :

| ULTRATROL - | | |
|--|-------|---|
| Range | | |
| 5 mtrs | _____ | 1 |
| 10 mtrs | _____ | 2 |
| 12 mtrs | _____ | 3 |
| X'ducer MOC | | |
| PU with ABS shield | _____ | P |
| PTFE with ABS shield | _____ | 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 |
| Indicator Controllers | | |
| Not Provided | _____ | W |
| TLPI | _____ | L |
| TLIC | _____ | C |
| TLICP | _____ | I |
| TUIC | _____ | U |
| TOFI | _____ | F |
| Others | _____ | O |

Accessories (to be ordered separately)

1. CS Bracket
2. CS Flanged Nozzle 3"NB
3. CS Flanged Nozzle 4"NB
4. FRP Canopy
5. Signal Cable, 2 core, 1mm² PVC screened pair (in mtrs)
6. Flotation Cell Assembly

Ordering Information :

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

Services :

Ultratrol with PU transducer - Raw / Waste / Fire / Sewage / Effluent Water, Alum Solution, Slurry, Sludge.

Ultratrol with PTFE transducer - 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.