

# MCOMUST

## ULTRASONIC LEVEL TRANSMITTER



The MCOMUST is a non-contact ultrasonic level transmitter designed for continuous level and distance measurement of liquids. Its solid-state construction ensures high reliability with no moving parts, minimal maintenance, and quick installation. With user-friendly programming via built-in keys and LCD, the transmitter can be easily calibrated without requiring the process medium.

### ➤ SALIENT FEATURES

- Compact & easy to install
- No moving parts & minimum maintenance
- User friendly program thru built-in keys & LCD
- 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. Time of flight i.e. travel time of signal is measured by microcontroller based electronics to provide 4-20 mA / HART output.

**Note: X'mitter is not recommended for fuming & foaming liquids**

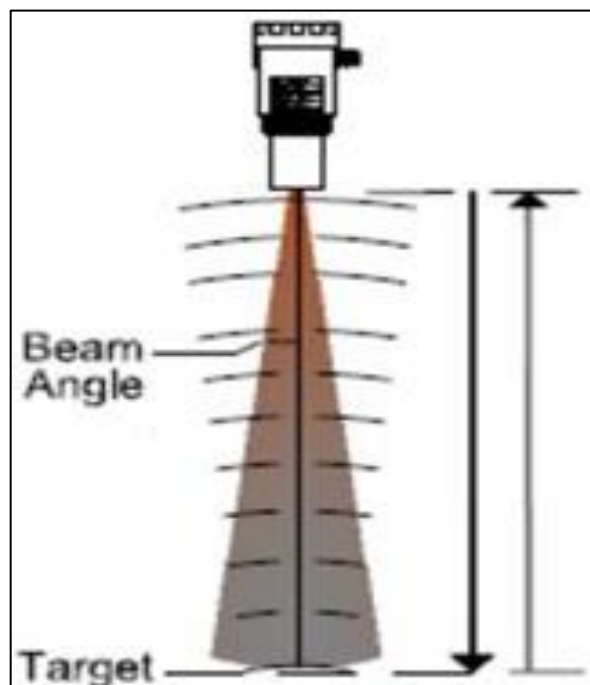
## ➤ SPECIFICATIONS

1.	MODEL NO.	MCOMUST	
2.	Measuring Range	Up to 30 meter	
3.	Measuring Mode	Level, Distance	
4.	Blanking Distance	450 mm	450 mm
5.	Beam Angle	$8 \pm 2^\circ$	$10 \pm 2^\circ$
6.	Power Supply	24 VDC + 10 %	
7.	Power Consumption	0.5 W max	
8.	Output	4 to 20 mA /HART	
9.	Max. Load	400 $\Omega$ @ 24 VDC	
10.	Display	Integral 4 digit dot matrix LCD	
11.	Accuracy/Resolution	$\pm 0.5$ % FSD / 1mm	
12.	Transducer MOC	ABS	
13.	Enclosure	ABS with polycarbonate window, IP65	
14.	Cable Gland	M20 X 1.5	
15.	Process Connection	2" BSP screwed x Flange 3"NB ASME 150# PP	
16.	Optg. Temp.	-20 ~ 70°C	
17.	Max Optg. Pressure	1 bar	
18.	Accessories	Mounting Bracket (CS), Flanged Nozzle (CS), FRP Canopy, Signal cable, 2 core, 1 mm <sup>2</sup> , PVC screened pair (in mtr), Float Cell Assembly.	

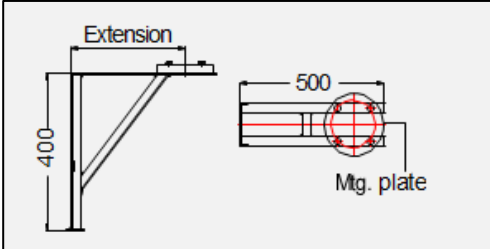
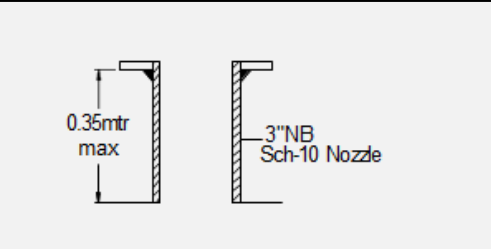
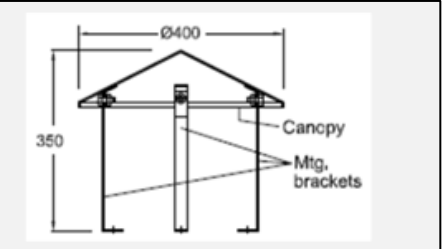
## ➤ SCHEMATIC & DIMENSIONS



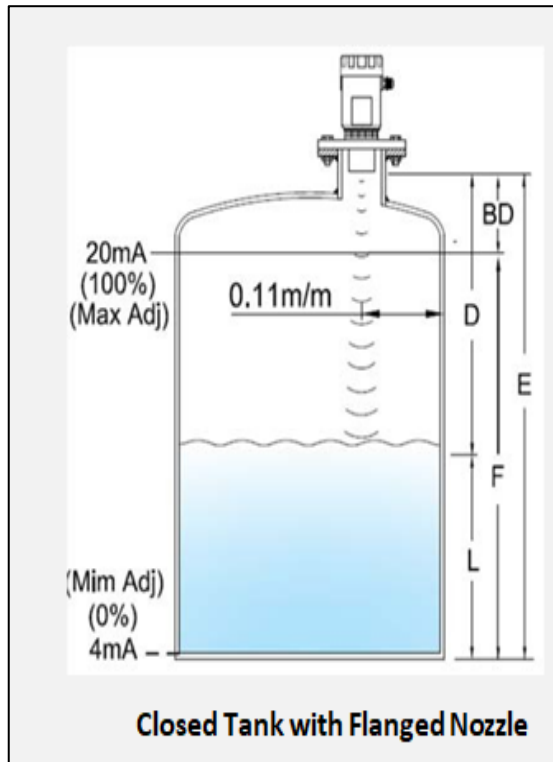
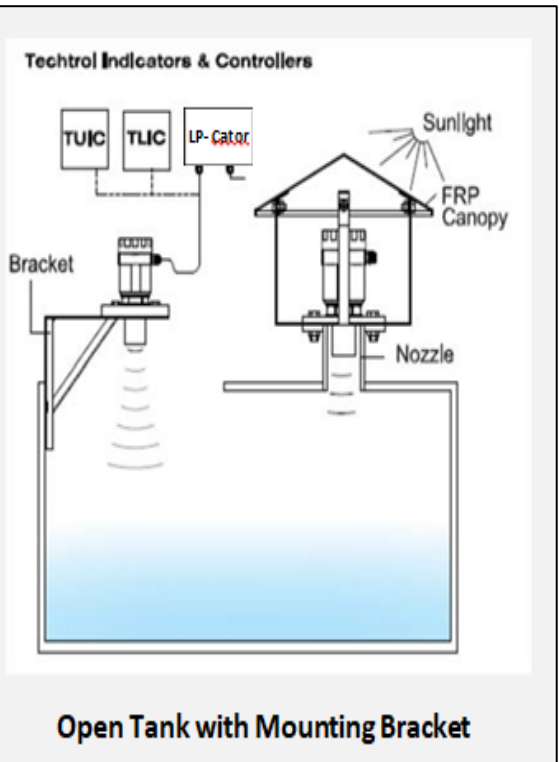
## ➤ OPERATING PRINCIPLE



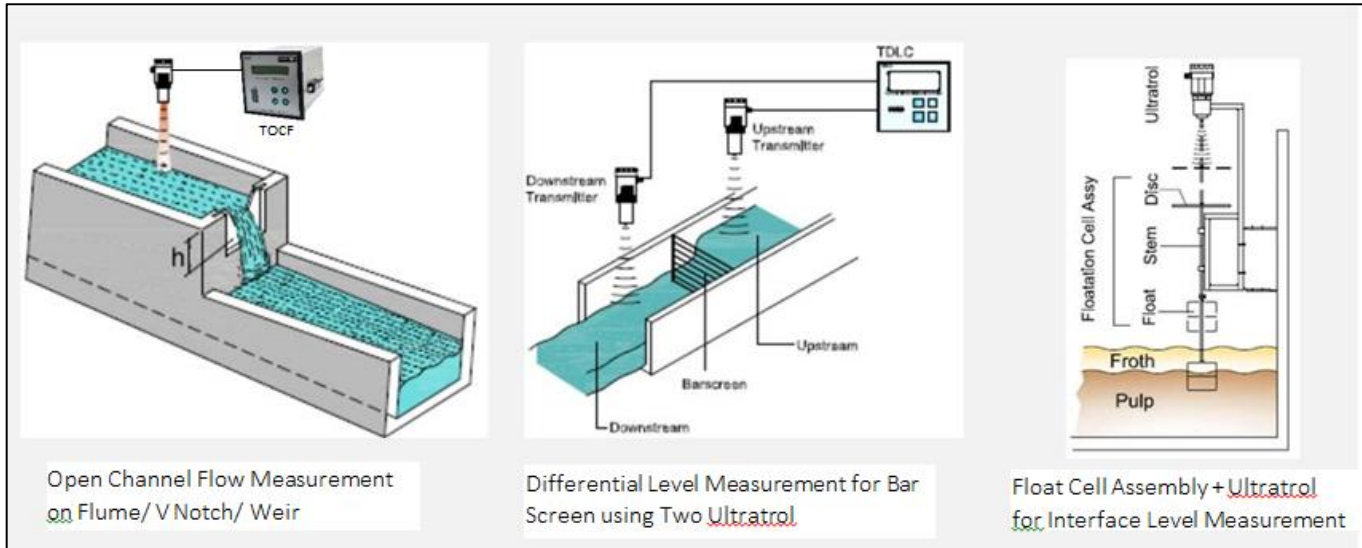
## ➤ ACCESSORIES

		
<p><b>1. Mounting Bracket (CS)</b> Easy Installation on Open Tanks</p>	<p><b>2. Flanged Nozzle (CS) 3" or 4" NB</b> Easy Installation on Closed Tanks</p>	<p><b>3. FRP Canopy</b> Protects LCD/Electronics from sunlight for outdoor installation</p>

## ➤ INSTALLATION

 <p><b>Closed Tank with Flanged Nozzle</b></p>	<p>BD - Blanking Distance F - Measuring Span E - <u>Input Bottom Dist.</u> = Total Range from Transducer Face D - Distance, L - Level (E-D)</p>	 <p><b>Open Tank with Mounting Bracket</b></p>
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## ➤ APPLICATIONS



Open/ Closed Tanks, Cooling, Water Tower, River/Canal/Basin/Dam/Reservoir Level, Sumps, WTP, ETP STP, Open Channel Flow, Differential Level Control (Bar screen), Loss of Head, Interface Level (Froth/Foam).

## ➤ SERVICES

Raw, Waste, Effluent, Sewage, Filtered, Treated, Sea Water, Coolant, Oil and Slurry.

**MODERN COMMUNICATION TECHNOLOGY**

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