Ultrasonic Level Transmitter



Introduction:

Ultrasonic level transmitters are used to measure level of all kinds of liquids. The sensor generates ultrasonic sound waves which strikes the medium and returns. The electronics measures the time taken and then computes the distance of measured surface to the sensor. The transmitter generates a 4 to 20 mA current signal proportional to the liquid level, or to the distance of liquid from sensor. This can be connected to a controller or any such device to monitor the liquid level.



Special Features:

1. Easy current setting facility

The unit can be "two point" calibrated for 4 mA minimum and 20 mA maximum current at any two user selectable points through the front panel.

2. Distance or height

The unit can be programmed to display either distance or height, which can again be selected as 4 to 20 or 20 to 4 mA. This gives extremely flexible choice for the end user.

3. Sound Filter

Special electronic filter is provided to detect the largest target which automatically eliminates false echoes and rejects noise clutter efficiently.

4. Inbuilt temperature compensation

The device has an internal sensor and a mechanism to compensate against temperature variations.

5. Voltage variations

The sensor will automatically calibrate itself for voltage variations. If the change is gradual, the sensor automatically compensates itself.

6. Over and under current indications

While the LCD is programmed to indicated the height of liquid in the tank, the user may not know the actual mA delivered. But while in operation if any of the green LEDs light up, this indicates a fault condition of under or over current.

7. Volume computation

It is possible to display the liquid volume in containers or tanks with vertical side walls.

8. Display filter

The rate of updation of measurement can be user selectable based on the application. The filter can be zero, or else in three levels, low, medium and high.



Electronics Housing
Temperature
Applications
Input supply
Analog Output (Programmable)
Mode
LED display
Communcation
Measuring range
Resolution
Accuracy
Updation time
Minimum distance
Display Filter
Temperature compensation
Voltage variations
Process connections
Electrical connections
Sensor face
Sensor body

Stainless steel or die cast aluminium, flame proof		
0 to 65 deg C		
Liquids including hazardous but non-corrosive medium		
12V/ 24 V DC		
1) 4 - 20 mA 2) 20 - 4 mA 3) 0 - 20 mA 4) 20 - 0 mA		
Distance OR Height measurement		
7 Segment		
RS 485 - Modbus (optional)		
1) 5m 2) 10 m		
5 mm or 10 mm depending on models		
0.5% of FSD		
150 mS max		
300 mm		
None / Low / Medium / High		
Inbuilt		
Internal calibration and automatic compensation		
1½" BSP		
³/ ₄ " ET		
Anodised aluminium		
PVC		

24V – GND - OP	Terminal block for 24 V DC power supply and output
A-B-GND RS	485 output (optional)
PON	12V / 24 V DC Power "ON" LED
F1, F2	Over and under current indicators
A, B, C, D	Key switches for programming

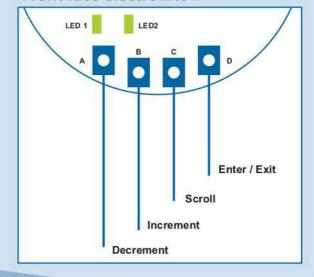
Ordering Information

FUT - 05 - Measuring Range upto 5mtr.

FUT - 10 - Measuring Range upto 10mtr.

Parts:

Front face electronics:





SAHANA ENGINEERING

Sr. No. 99, Shop No. 9, Lokesh Appartment, Yashwant Nagar, Telco Road, Pimpri, Pune - 411 018, Mahrashtra, India.



info@sahanaengineering.com www:sahanaengineering.com



+91 9922959853

+91 8888868569

+91 9607009852