

TS2000-ULT

ULTRASOINC LEVEL TRANSMITTER - SWITCH



Features

- Non-Contact Ultrasonic Technology
- Automatic Temperature Compensation
- Measures liquid height, distance to liquid, volume or flow in open channels
- Backlit LCD display
- Narrow Beam Technology
- IP-67 SS-316 Enclosure
- 4–20 mA with Optional RS-485 (MODBUS RTU) & Relay
- Easy Installation & Low Maintenance



Technical Specifications

Performance Characteristics	
Measurement Principle	Ultrasonic : Time Of Flight
Measuring Range	up to 12 mtrs.
Power Supply	18-36 V DC
Power Consumption	< 500 mW
Display	Backlight LCD
Dead Band	Less than 300 mm
Response Time	1 Sec
Accuracy	± 0.25% F. S.
Linearity	+/- 0.1%
Repeatability	+/- 0.1%
Electrical Connection	M12 Connector
MOC Electronics Enclosure & Rating	SS-316 and IP-68
Enclosure	Weather Proof IP-68
Output	4 to 20 mA
Alarm or Relay Output	1 Relay Output (Optional)
Communication Output	RS-485 MODBUS RTU (Optional)
Process Temperature	200°C max
Operating Pressure	Atmospheric
Measuring Frequency	25 KHz
Beam Angle	< 7°
Temperature Coefficient	+/- 0.01% per °C
Ambient Conditions	Temperature :-20°C to 70°C / Humidity : 5 to 95% non-condensing
Insulation Resistance	>100 MΩ at 100VDC
Process Connection	2" BSP (12 meters)
Mounting	Vertical - Top of the tank
MOC Probe	PVDF
Material of Construction	All Wetted Parts SS-316
Weight	Less than 3 kg

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Assembly Overview

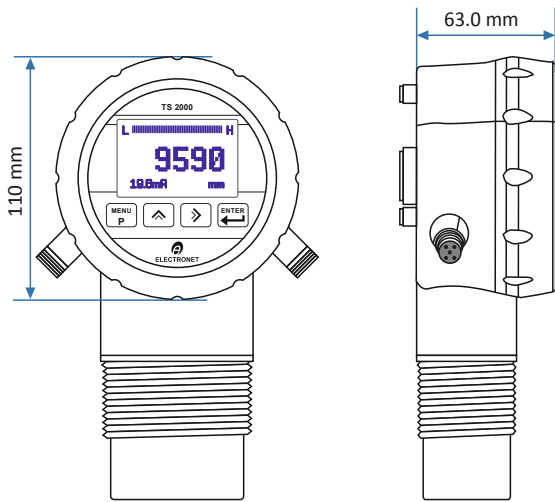


Fig. 1 Front View

Fig. 2 Side View

Connection Details

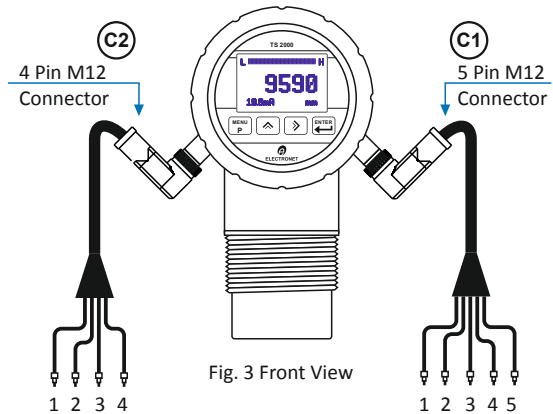


Fig. 3 Front View

C2: Details

- 1 : (POLE) Alarm Output
- 2 : (NO) Alarm Output
- 3 : (RX) RS485
- 4 : (TX) RS485

C1: Details

- 1 : +24V DC
- 2 : I+ Analog Output 4 to 20mA
- 3 : 0V DC/ I- Analog Output 4 to 20mA
- 4 : NC
- 5 : NC

Ordering Information

Sample Order Code : TS 2000 ULT-A1-B1-C1-D1-E1

Parameter		Code	Description
A	Measuring Range	A1	300 mm
		A2	600 mm
		A3	1000 mm
		A4	2000 mm
		A5	3000 mm
		A6	6000 mm
		A7	8000 mm
		A8	10000 mm
		A9	12000 mm
B	Alarm or Relay Output	B1	1 Relay Output (Optional)
		BX	NA

Parameter		Code	Description
C	Communication Output 1	C1	RS485 (MODBUS RTU) (Optional)
		CX	NA
D	Ultrasoinc Sensor Moc	D1	PVC
		D2	PVDF
		DY	Other
E	Process Connection	E1	1&1/2"BSP (M)
		E2	2" BSP Threaded
		E3	2" SS-316 Flanged
		EY	Other

Note :

- Due to our continuous product revisions, design specification & model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.
- This product is meant for laboratory/Process application only and not for custody transfer application.

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