

TS2000-PTL

POTENTIOMETRIC LEVEL SENSOR - SWITCH



Features

- Wetted parts, corrosion-resistant stainless steel
- Suitable for a wide range of homogeneous process media, especially for media with low conductivity $> 5 \mu\text{S/cm}$
- Durable SS-316 Enclosure offering superior corrosion resistance
- IP-68 Protection for reliable operation in harsh and wet environments
- Backlit LCD display
- Switch Functionality for versatile control and monitoring
- RS-485 (MODBUS RTU) Communication for easy system integration and remote access



Technical Specifications

Performance Characteristics	
Measuring principle	Potentiometric level measurement
Measuring range	200 to 3000 mm
Conductivity	$\geq 5 \mu\text{S/cm}$
Response time	1 Sec
Accuracy	$\pm 0.25\%$ F. S.
Repeatability	$\pm 0.1\%$
Process temperature	200°C max
Process pressure	16 kg/cm max
Process connection	1" BSP Male Threading
Ambient temperature	-20°C to 70°C
Ambient Humidity	5 to 95% non-condensing
Output	4 - 20 mA
Alarm or Relay Output	1 Relay Output (Optional)
Communication Output	RS-485 MODBUS RTU (Optional)
Wetted parts material	SS-316
MOC Electronics Enclosure	SS-316
Electronic Protection Class	Weather Proof IP-68
Electrical Connection	M12 Connector
Power supply	18-36 V DC
Display	Backlight LCD
Mounting	Bottom mounted
	Top mounted

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Assembly Overview

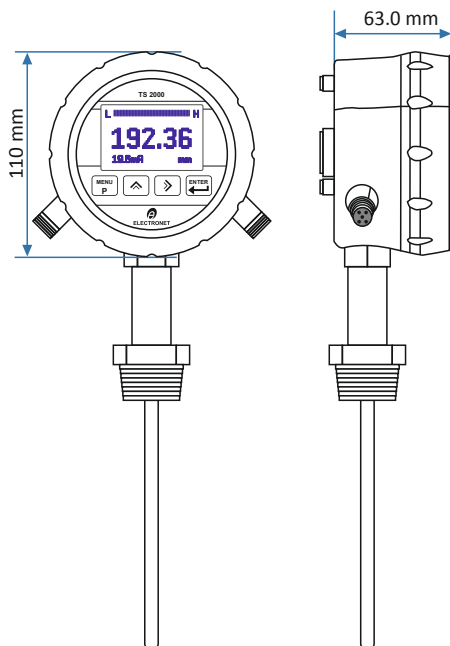


Fig. 1 Front View

Fig. 2 Side View

Connection Details

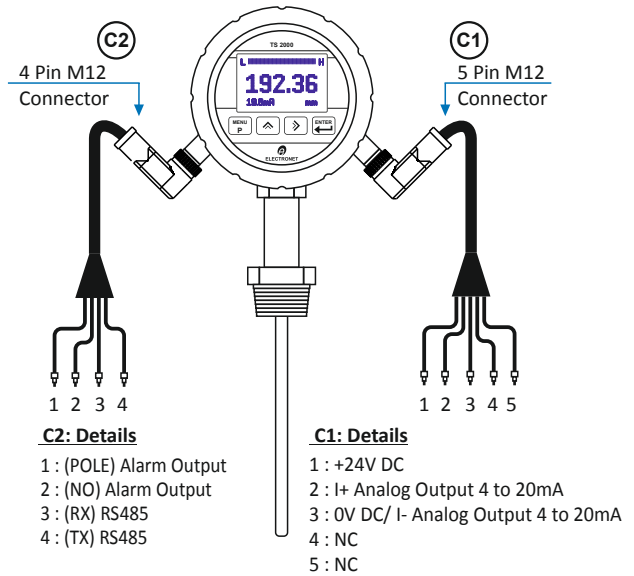


Fig. 3 Front View

Ordering Information

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

Parameter		Code	Description
A	Measuring Range (Up To)	A1	200 mm
		A2	300 mm
		A3	600 mm
		A4	1000 mm
		A5	2000 mm
B	Mounting	B1	Bottom mounted
		B2	Top mounted
C	Alarm or Relay Output	C1	1 Relay Output (Optional)
		CX	NA

Parameter		Code	Description
D	Communication Output 1	D1	RS485 (MODBUS RTU) (Optional)
		DX	NA
E	Process Connection	E1	1" BSP (M)
		E2	1&1/2"BSP (M)
		E3	2 " PVC Flanged
		E4	2 " SS-316 Flanged
		E5	50 NB SS-316 Tri Clover
		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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