

TS2000-SDP

PRESSURE TRANSMITTER - SWITCH



Features

- Piezo Resistive Sensor
- Measuring Range : 0.35 to 25 bar
- 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	
Sensor Type	Piezo Resistive
Pressure Range	DP URL : 35 kPa to 2500 kPa
Measuring unit	bar
	psi
	Pascal
	mmWc
	kg/cm ²
Power Supply	18-36 V DC
Display	Backlight LCD
Accuracy	± 0.25% M.V.
Non Linearity	0.2% of Span
Non Repeatability	< 0.1% of Span
Response Time	1Sec
Over Pressure Safety	2 times max. Pressure range
Burst Pressure	3 times max. Pressure range
MOC of Electronics	SS-316
Enclosure	Weather Proof IP-68
Electrical Connection	M12 Connector
Output	2 wire system with 4 to 20 mA
Alarm or Relay Output	1 Relay Output (optional)
Communication Output	RS-485 MODBUS RTU (Optional)
Material of Construction	All wetted parts SS-316
Process Temperature	120°C max
Ambient Conditions	Temperature : -20°C to 75°C / Humidity : 5 to 95% non-condensing
Insulation Resistance	>100 MΩ at 100VDC
Process Connection	Refer ordering information
Mounting	Direct Line mount (Vertical) / 2" Pipe Mount
Weight	Less than 3 kg

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Assembly Overview

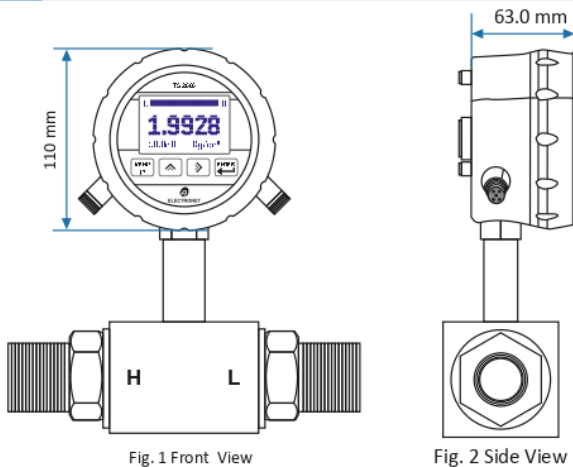


Fig. 1 Front View

Fig. 2 Side View

Connection Details

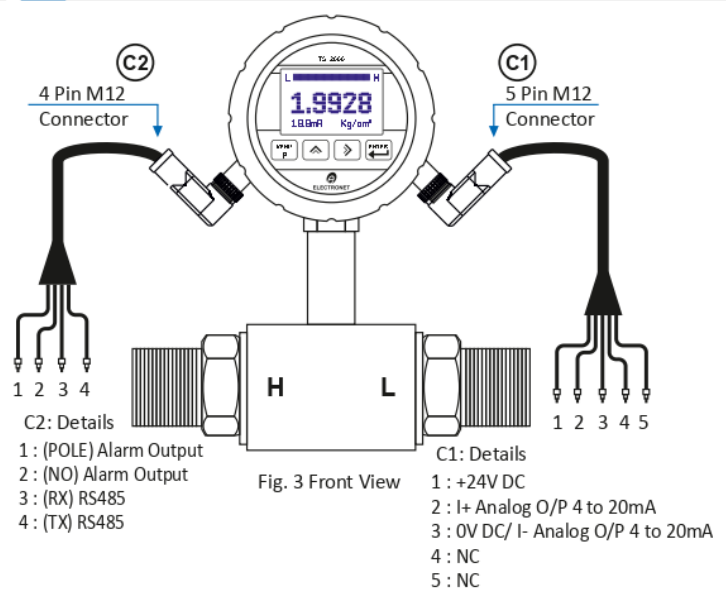


Fig. 3 Front View

Ordering Information

Sample Order Code : TS 2000 SDP-A1-B1-C3-D1-E1-F1-G1-H1-I1-J1

	Parameter	Code	Description		Parameter	Code	Description		
A	Output 1	A1	RS-485 MODBUS RTU Communication Output	G	MOC of Sensor, Flange, Adapter & Drain Vent Valve	G1	SS-316		
		G2				Hastelloy C			
		AX	NA					GY	Other
B	Output 2	B1	Alarm Relay contact	H	O Ring Material	H1	Buna - N		
		BX	NA			H2	Ethylene - Propylene		
C	Measurement Type	NA	AP			H3	Teflon		
		NA	GP			H4	Viton		
		C3	DP						
D	Pressure Range	D2	35 Kpa	I	Process Connection (In SS-316)	I1	¼" NPT (M)		
		D3	70 kPa			I2	½" NPT (M)		
		D4	100 kPa			I3	¼" BSP (M)		
		D5	250 kPa			I4	½" BSP (M)		
		D6	400 kPa			I5	¼" NPT (F)		
		D7	600 kPa			I6	½" NPT (F)		
		D8	1000 kPa			I7	¼" BSP (F)		
		D9	1600 kPa			I8	½" BSP (F)		
		D10	2500 kPa			I9	Flush Diaphragm (Triclover		
						I10	Flush Diaphragm (1" BSP)		
E	Diaphragm Material	E1	SS-316L			I11	Diaphragm Seal 1" (SS-316)		
		E2	Hastelloy C			I12	Diaphragm Seal 2" (SS-316)		
		EY	Other			I13	Diaphragm Seal 3" (SS-316)		
F	Sensor Fill Fluid	F1	Silicon Oil			I14	5 Mtr Capillary (1" Flange)		
		FY	Other			I15	5 Mtr Capillary (2" Flange)		
Note : ■ Due to our continuous product revisions, design specification and 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.								I16	5 Mtr Capillary (3" Flange)
								IY	Other
				J	Mounting Bracket	J1	MS		
						J2	SS-316		

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