



Datasheet Submersible level transmitter SUP-P260



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Datasheet

Submersible pressure transmitter for level measurement Model SUP-P260, standard version

The submersible liquid level transmitter uses a high-performance diffused silicon piezoresistive pressure sensor as the measuring element, which accurately measures the hydrostatic pressure proportional to the liquid level depth, and converts it into a standard (current, voltage, RS485) through a signal conditioning circuit.) signal output, establishes the linear correspondence between the output signal and the liquid depth, and realizes the measurement of the liquid depth.

Applications

- Rivers and lakes
- Vessel and storage systems
- Control of sewage lift and pumping stations
- Well monitoring
- Ground water monitoring
- Environmental remediation
- Surface water monitoring
- Down hole
- Water Tanks



Features

- High performance diffused silicon piezoresistive sensor
- Probe input measurement method, easy to install
- Multiple protection structure design, high protection ability
- Various designs, suitable for various industrial conditions
- Choose anti-corrosion stainless steel material, suitable for various occasions

Principle

Pressure P(liq) on any surface and container walls at depth h, by the liquid of desnity d, P(liq) = $d \times g \times h + P(air)$

Submersible level transmitter





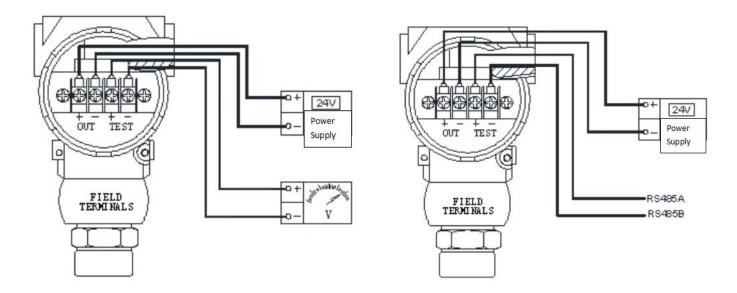
Parameters							
	(4~20) mA output (10~32) V						
Power supply	(0~10) V output (12~32) V						
	RS485 output (8~32) V						
Output	(4~20) mA; $(1~5)$ V; $(0~10)$ V; $(0~5)$ V; RS485						
Accuracy	0.5%						
Measurement range	0~1m200mwater bar						
Pressure type	Surface pressure						
Compensation temperature	(-10~70) ℃						
Medium temperature	(-10~65) ℃						
Storage temperature	(-40∼85) ℃						
Zero output temperature drift	±0.3%FS/10°C ((-10~70)°C)						
Full-Scale Output Temperature Drift	t ±0.3%FS/10℃((-10~70)℃)						
Overload pressure	150%FS						
long term stability	±0.2%FS/year						
Response time	Current and voltage output pressure≤10ms (up to 90%FS); RS485 output pressure≤100ms (up to 90%FS)						
Insulation resistance	20MΩ/250VDC						
Ingress Protection	Sensor IP68, 2088 wiring part IP65						
Load Resistance	(U-9V)/0.02A, U is the power supply voltage						





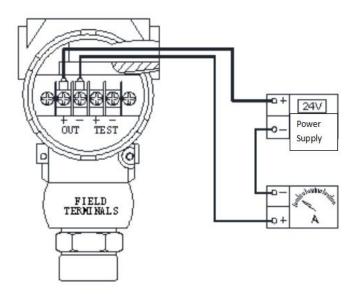
Wiring

2088 Type Electrical Connection Diagram



2-wire current output

RS485 output



voltage output

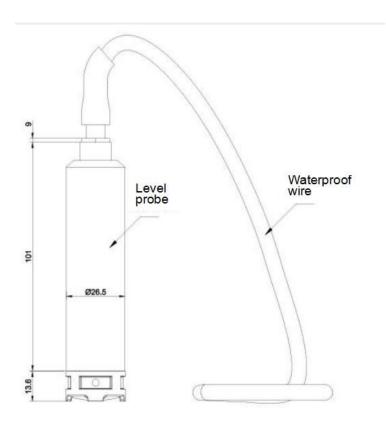




Leaded electrical connection

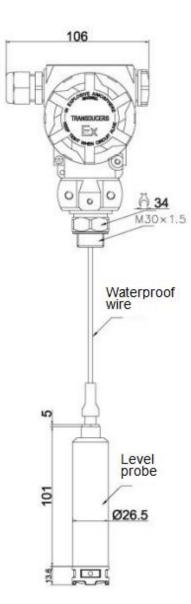
Output type	color	Description			
current	Red wire Blue wire	24VDC current output			
voltage	Red wire Blue wire Yellow wire	24VDC negative power supply voltage output +			
RS485	Red wire Black wire Blue wire Yellow wire	24VDC negative power supply 485A 485B			

Dimension



direct lead type







2088 type without display

2088 type with display





Ordering code

SUP-P260-R(0-5)-J5-O0-D0-CS5-CT1-V1-AT0							Description	
SUP-P260	-	-	-	-	-	-	-	
Range R(XX - XX)								0∼0.5m200m
Accuracy	J5							0.5%
		00						1
		01						4-20mA output
Output		02						(1~5) V
		O3						(0~5) V
		ΟZ						Other
Communication			D0					1
Communication	1		D1					RS485
Cable length			CS5				5m	
				CSXX				XXm
Cable material				CT1			PE	
				CT2			PU	
Power supply				V1		24VDC		
				V3		12VDC		
Accessory Type					AT0	1		
					AT1	Install filter screen (anti-clogging head)		

