











Datasheet Submersible level transmitter SUP-P260



Committed to process automation solutions

Tel: 86-15158063876

E-mail: info@supmea.com

www.supmea.com



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

Submersible level transmitter

Principle

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

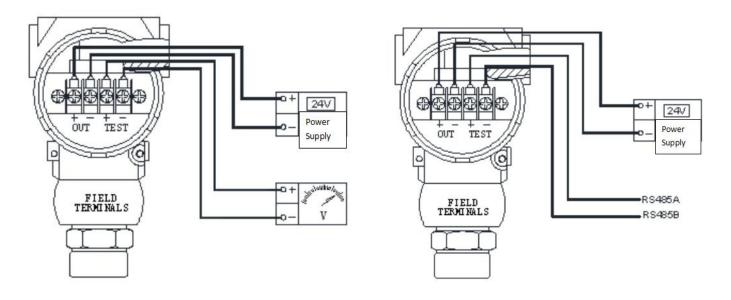


Parameters							
	(4~20) mA output (10~32) V						
Power supply	(0~10) V output (12~32) V						
	RS485 output (8~32) V						
Output	(4~20) mA; (1~5) V; (0~10) V; (0~5) V; RS485						
Accuracy	0.5%						
Measurement range	0~1m200m water bar						
Pressure type	Surface pressure						
Compensation temperature	(-10~70) ℃						
Medium temperature	(-10~65) ℃						
Storage temperature	(-40~85) ℃						
Zero output temperature drift	±0.3%FS/10℃ ((-10~70) ℃)						
Full-Scale Output Temperature Drift	±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						



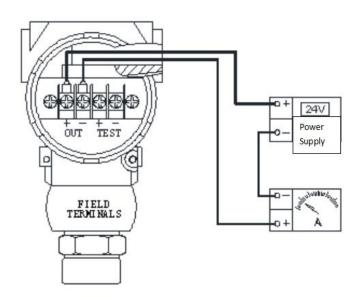
Wiring

2088 Type Electrical Connection Diagram



2-wire current output

RS485 output



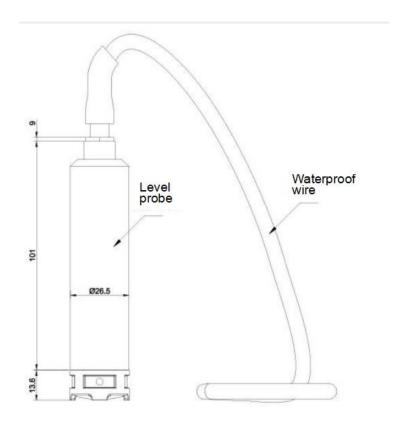
voltage output



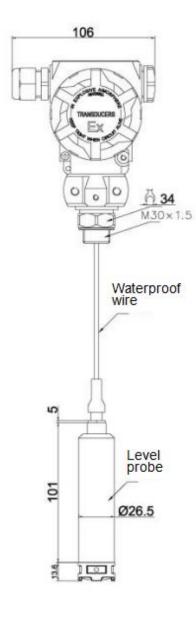
Leaded electrical connection

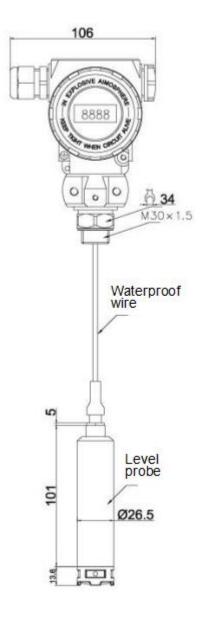
Output type	color	Description
current	Red wire	24VDC
	Blue wire	current output
	Red wire	24VDC
voltage	Blue wire	negative power supply
	Yellow wire	voltage output +
	Red wire	24VDC
RS485	Black wire	negative power supply
	Blue wire	485A
	Yellow wire	485B

Dimension



direct lead type





2088 type without display

2088 type with display



Ordering code

SUP-P260-01-K-A1-N	13-1-0)5-N9					Description
SUP-P260 -	-	-	-	-	-	-	
	01						1m
	02						2m
	03						3m
	05						5m
	07						7m
Measurement Range	10						10m
	20						20m
	50						50m
	1H						100m
	XX						Other
		K					0.5 Class
Accuracy		G					0.25 Class(Only range ≥10m)
		Χ					Other
			A1				Two-wire 4-20mA
			V1				0-5V,24VDC
	Cunn	.l.,	V2				0-10V,24VDC
Output and Power	Supp	oiy	R2				RS485,24VDC
		R1				RS485,12VDC	
			XX				Other
M3					SS316L		
Diaphragm Material XX				Other			
1					1		304SS,IP68
Probe Material and Ingress Protection 2				SS316L,IP68			
		3		Titanium,IP68			
05 Cable Length						05	5m
					10m		
(Recommended cable length ≥ measurement range)			20	20m			
			50	50m			
					1H	100m	



XX	(Other
	N9	Polyvinyl Chloride
Cable Sheath Material	N2	Polyurethane
	XX	Other