

Datasheet
Submersible level transmitter
SUP-P260



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Datasheet

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

This series submersible level transmitters are manufactured for years of trouble free service in the harshest applications. The transmitters consist of a piezoresistive sensing element, encased in a 316 SS housing.

Compensation for atmospheric pressure changes is accomplished through a vent tube in the cable, Units come equipped with a tensile strength shielded and vented cable. Ventilation tube in the cable automatically compensates for changes in atmospheric pressure above the tank. The vent is protected with a maintenance free filter eliminating particulate or water droplets from entering the transducers, and the cable construction for aggressive media.

Application

- 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

Characteristics

- Wide measuring ranges
- IP68 for permanent submersion
- The cable construction for aggressive media
- 316SS case available for aggressive media
- Analog output signal, RS485
- High precision and excellent long term stability
- Bullet nose protects the diaphragm from damage.
- Ventilation tube to ensure automatically compensates
- Lightning protection available



Submersible level transmitter

Principle

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



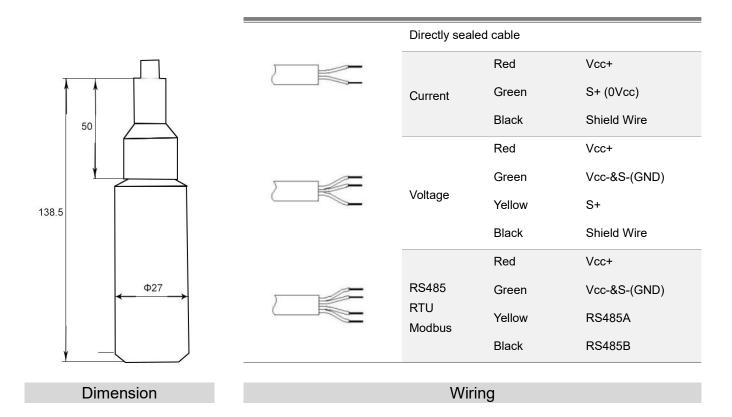
Measuring range	
Bar	0 - 0.050 - 50
inWC	0 - 200 - 20000
Psi	0 - 1.00 - 725
mH2O	0 - 0.50 - 500

When choosing the PTFE cable, only measuring ranges up to 0...10 bar,0..150 psi and 0...100 mH2O are available. The given measuring ranges are also available in mbar, kPA and MPa

Materials		
Watted parts	Standard	Option
Case and sensor	Stainless steel 316	Ceramic Capacitor
Protection cap	Stainless steel 304	316/PTFE/PVC
Cable	PUR	PTFE

Overload	200% F.S.						
Burst pressure	300% F.S.						
Accuracy: (Linearity Hysteresis Repeatability)	\leq ±0.1% F. S \leq ±0.15% F. S \leq ±0.25% F. S \leq ±0.5% F.S (Optional) Including non-lin., rep. and hys.						
Long Stability	≤ ±0.2% of span/year						
Working Temp	-30℃-80℃ or-40℃-100℃(Customized)						
Storage Temp	- 40℃~125	\mathbb{C}					
Temperature Compensation	Standard:-	0℃~60℃ o	r by Custom	ized			
Medium compatible	Compatible with 316L Stainless Steel						
Electronic Wire	2 Wires / 3	2 Wires / 3 Wires / 4 Wires					
Output	4-20mA	1-5V 0-5V	0-10V	0.5-4.5V	0-100 mV/V	Rs485 Modbus RTU	
Power Supply	12-30VDC (7-30Vdc optional)		15-30Vdc	5Vdct5%	10Vdc	10~30 Vdc (2.7-5.5 Vdc optional)	
Polarity protection	yes	yes	yes	yes	yes	yes	
Insulate resistance	>100MQ@100V						
Zero Temp. Drift	0.03% FS/PC(≤100kPa);0.02% FS/C(>100kPa)						
FS Temp. Drift	0.003% FS/C(s100kPa)						
Electronic connection	Fixed cable and water proof IP68						
Response time	s4 to 10 ms (standard); s1 ms (Customized)						
Pressure Type	Gage pressure; Sealed gage and absolute optional.						
Lighting Protection	Air conduction more than 8000V; external sensor more than 4000 Voltage protection.						
Cable optional	Cable materials are optional according request,we offer 3 type special cable as follow: PE Cable(Water Proof);PUR Cable(Oil Proof);PTFE Cable(Anti-Corrosive)						
Weight	Net weight is about 0.35KG,Full Packing weight is about 1.0KG (Not include cable)						





Ordering code: SUP	- P260 - R(XX	(-XX) -	J1 - C)1 - [)1 - \	√1 - A	T1 - C	S5-F	21
Model									SUP-P260
Measuring range	R(XX - XX)								0-0.560m
Accuracy		J1							0.5% F.S
		J2							0.25% F.S
		J3							0.1% F.S
		J4							0.15% F.S
			00						No analog output
									4 - 20mA output
Analog output			02						1 - 5V output
			О3						0 - 5V output
			ΟZ						Others
Communication output			D0					No communication output	
			D1					RS485	
Power supply			V1				24VDC		
					V2				12VDC
Spare part					AT0			No	
					AT1			Filter	
Cable length						CS5		5m (Standard)	
							CSXX		XX m (Custom length)
Pressure type				P1	Gauge pressure				
. 1000010 1370						P2	Absolute pressure		



Appendix



SUP-1100

Digital meter 160*80*110 Best sales Standard Edition



SUP-1300

Digital meter 48*48*110 Small size Easy to install



SUP-5100

Digital meter 80*160*110 Light bar display Intuitive



SUP-R9600

Paperless recorder 92.5*92.5*101 18channels inputs 4channels alarm outputs U disk



SUP-R6000F

Paperless recorder 193*162*144 36 channels inputs 8 channels alarm outputs U disk