



Recorder



Flow



Pressure



Temp



Analyzer



Level

## Datasheet

### Submersible level transmitter

### SUP-P260

# Supmea<sup>®</sup>

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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

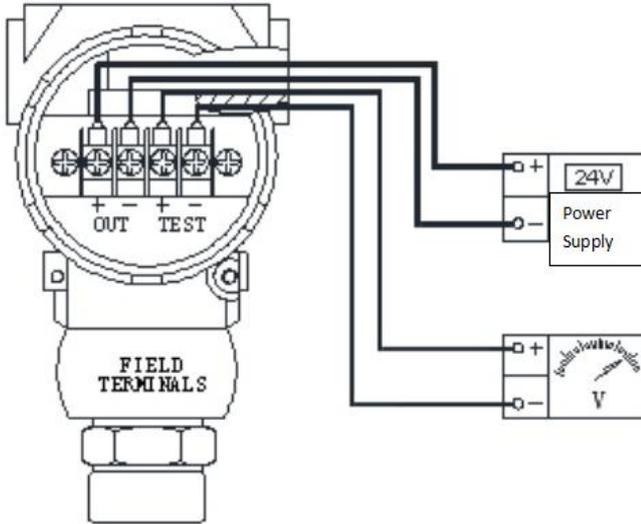
**Submersible level transmitter****Principle**

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

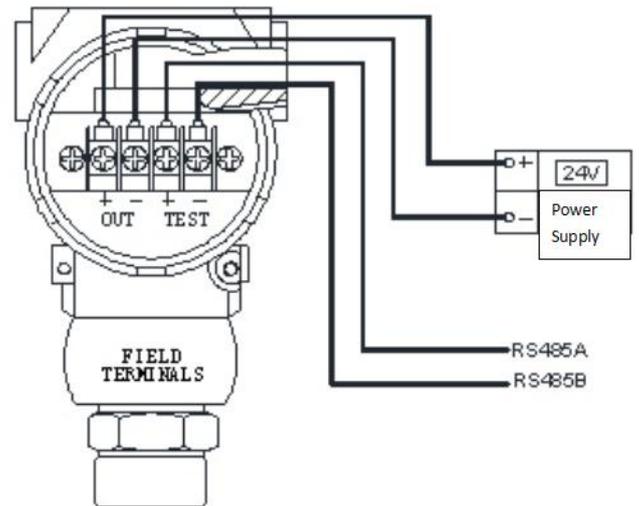
Parameters	
	(4~20) mA output (10~32) V
Power supply	(0~10) V output (12~32) V
	RS485 output (8~32) V
Output	(4~20) mA; (1~5) V; (0~10) V; (0~5) V; RS485
Accuracy	0.5%
Measurement range	0~1m...200m water bar
Pressure type	Surface pressure
Compensation temperature	(-10~70) °C
Medium temperature	(-10~65) °C
Storage temperature	(-20~65) °C
Zero output temperature drift	±0.3%FS/10°C ( (-10~70) °C )
Full-Scale Output Temperature Drift	±0.3%FS/10°C ( (-10~70) °C )
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	500MΩ/100VDC
Ingress Protection	Sensor IP68, 2088 wiring part IP65
Load Resistance	(U-9V)/0.02A, U is the power supply voltage

Wiring

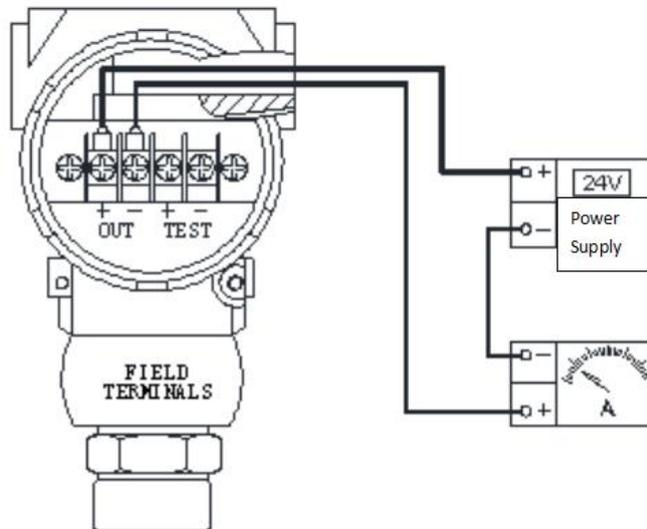
2088 Type Electrical Connection Diagram



2-wire current output



RS485 output

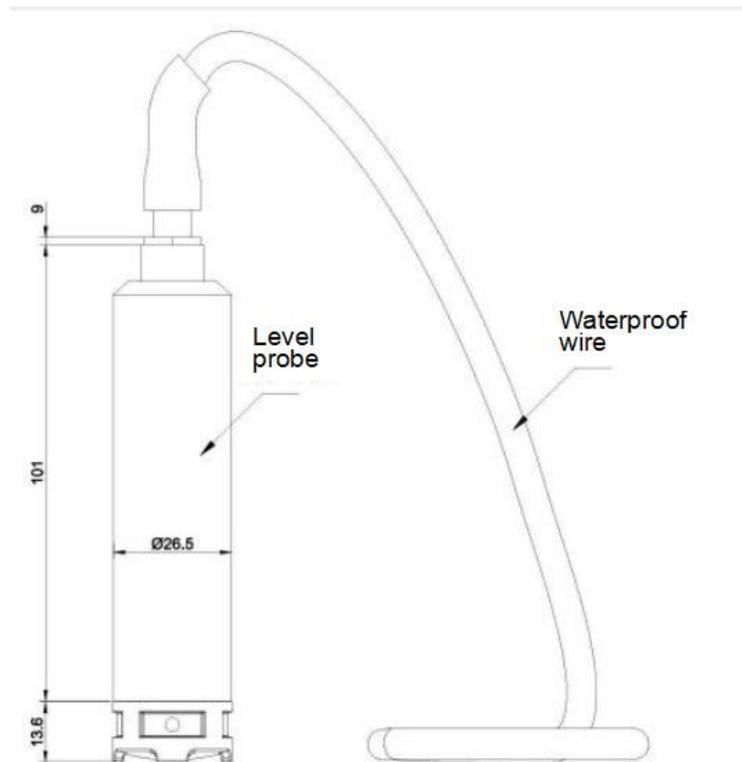


voltage output

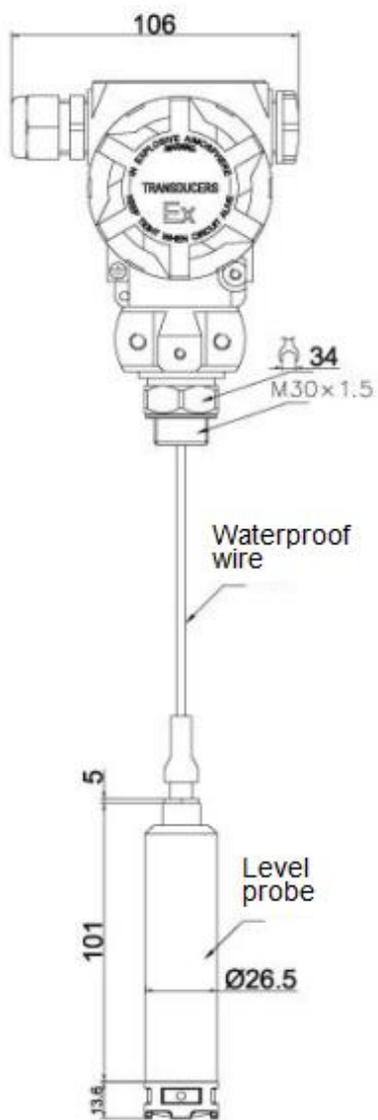
**Leaded electrical connection**

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

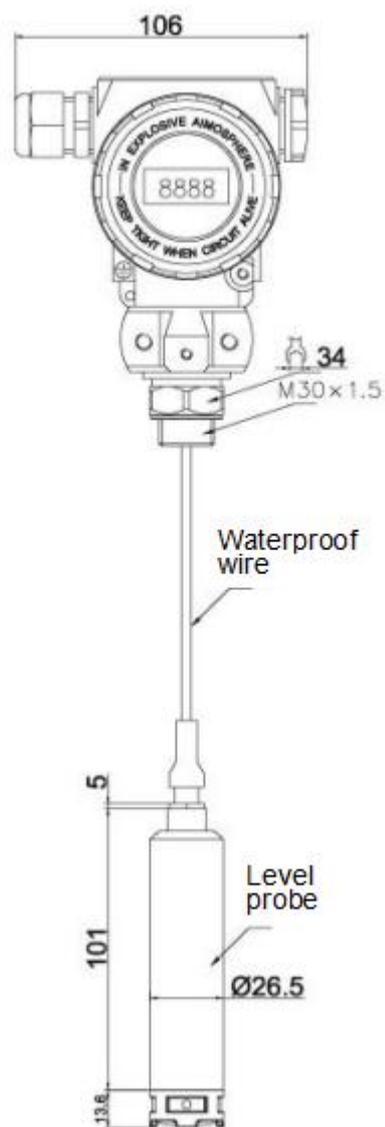
**Dimension**



**direct lead type**



2088 type without display



2088 type with display

Ordering code

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

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