



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Submersible level transmitter

SUP-P260-M3

Supmea[®]

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Datasheet

The submersible Level Transmitter is designed with a slender structure, highest accuracies, low temperature errors, ensure the suitability of the transmitter for all submerged level measurements. The transmitter provide continuous liquid level measurement by sensing the hydrostatic pressure produced by the height of liquid above the sensor and providing a 4-20 mA output signal compatible with PLC, panel meter, data logger, and other electronic equipment. The transmitter consists of a sensing element, encased in a 316 SS housing with cage and large diameter 316 SS diaphragm seal. The sensor prevents moisture intrusion, along with the integrated lightning protection, suitable for both indoor and outdoor use.

Application

- Deep well and borehole measurements
- Level measurement in open bodies of water
- Sewage lift and pumping stations
- Settling ponds and rainwater basins
- Ground water monitoring
- Drinking water system
- Vessel and storage systems
- Overfilling and no-load operation monitoring
- Level measurement in rivers and lakes

Features

- Slender design
- Durable 316 SS construction for reliable, long life in harsh environments
- good long term stability
- Diaphragm is protected from physical damage and turbulence
- Excellent chemical compatibility for wide application use
- Ingress protection up to IP 68
- Optional cases



Submersible level transmitter

Parameter

Relative pressure

bar	0...0.25	0...0.4	0...0.6	0...1	0...1.6	0...2.5	0...4	0...5
mH ₂ O	0...2.5	0...4	0...6	0...10	0...16	0...25	0...40	0...50
psi	0...3.6	0...5.8	0...7.8	0...14.5	0...23.2	0...36.2	0...58	0...72.5

The given measuring ranges are also available in mbar, kPa and MPa.

Measure range	0m-0.5m-50m
Overload pressure	≤200%FS
Pressure type	G (Gauge pressure), A (Absolute pressure)
Accuracy	0.5%
Stability	±0.25%FS/Year
Zero temperature drift	±0.05%FS/°C
Sensitivity drift	±0.05%FS/°C
Temp compensation	0°C ~ 50°C (for measurement ranges ≤ 200 kPa) -10°C ~ 70°C (for measurement ranges > 200 kPa)
Medium temperature	-20°C-65°C
Power supply	12VDC-30VDC
Signal output	4mA-20mA, 0V-5V(Customized)
Load Resistance	Current type: ≤ (U-12) / 0.02(Ω)
Ingress protection	IP68

Electrical connection

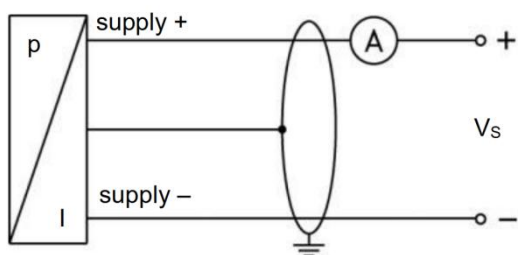
Cable lengths

Meter (m)	1.5	3	5	10	15	20	25	30	40	50	60	80	100
Feet (ft)	5	10	20	30	40	50							

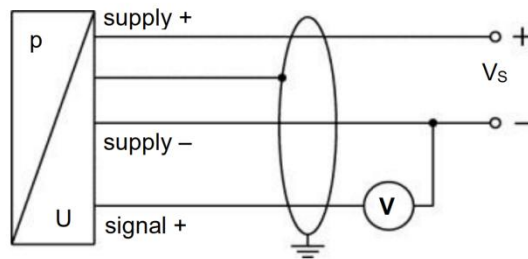
Other cable lengths on request

Wiring diagrams

2-wire-system (current)



3-wire-system (voltage)



Current output:

Red: 24V +
Green: Current +
Black: GND

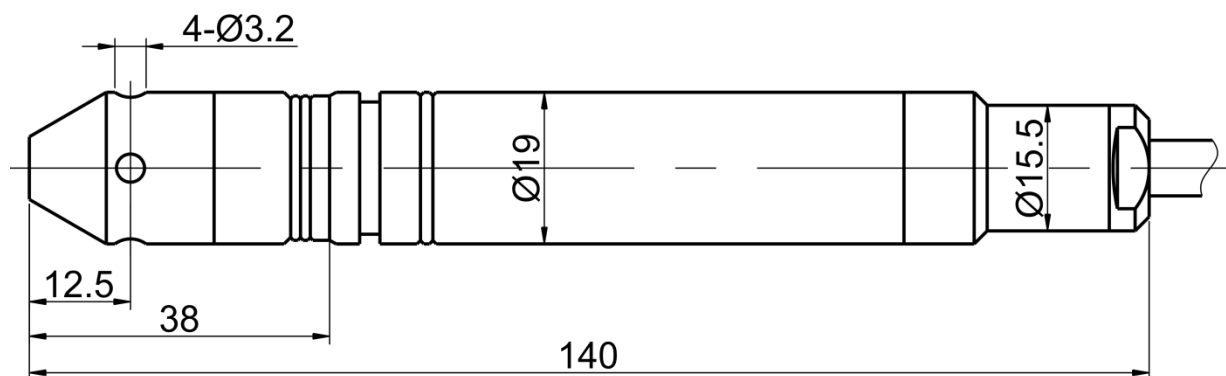
Voltage output:

Red: 24V +
Green: 24V -
Yellow: Voltage +
Black: GND

RS485 output:

Red: 24V +
Green: 24V -
Yellow: 485A
Blue: 485B
Black: GND

Dimension



Ordering code

Use the character from the chart below to construct a product code.

Range selection table

0	0...2.5	1	0...4	2	0...6	3	0...10	4	0...16
5	0...25	6	0...40	7	0...50	X	Customized		

SUP-P260-M3-03-K-A1-M3-1-20-N9													Description
SUP-P260-M3	-	-	-	-	-	-	-	-	-	-	-	-	
Measurement Range	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
	R2												RS485,24VDC
	V1												0-5V,24VDC
	XX												Other
Diaphragm Material	M3												SS316L
	XX												Other
Probe Material and Ingress Protection	1												304SS,IP68
	2												SS316L,IP68
	X												Other
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

Accessories

Data logger

Panel meter

Panel meter

