



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Submersible level transmitter

SIN-P260-M2

Sinomeasure

Committed to process automation solutions

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Datasheet

The submersible Level Transmitter is designed for difficult level sensing applications where sludge, slurry, or turbulence may be present. 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, and performance well even when the assembly is buried in a layer of sludge or slurry.

Application

- Wastewater
- Wet Wells
- Oil tanks
- Sumps
- Reservoirs
- Sludge, slurry or turbulence
- Chemical storage tanks
- Lift station monitoring
- Liquid level in vented tank
- Landfill leachate monitoring
- Dewatering
- Pump control

Features

- Non-clogging and damage resistant to floating solids
- Durable 316 SS construction for reliable, long life in harsh environments
- 1/2 inch NPT threaded connection, allows the unit to be installed in a pipe/conduit
- Diaphragm is protected from physical damage and turbulence
- Added weight helps hold transmitter in place
- Excellent chemical compatibility for wide application use



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...6	0...10
mH2O	0...2.5	0...4	0...6	0...10	0...16	0...25	0...40	0...60	0...100
psi	0...3.6	0...5.8	0...7.8	0...14.5	0...23.2	0...36.2	0...58	0...87	0...145

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

Medium	Compatible liquids
Measure range	0m-0.5m-100m
Overload pressure	≤200%FS
Pressure type	G (surface pressure)
Accuracy	0.5%
Stability	±0.2%FS/Year
Zero temperature drift	±0.03%FS/°C
Sensitivity drift	±0.03%FS/°C
Temp compensation	0°C-50°C, -10°C-60°C
Medium temperature	-30°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

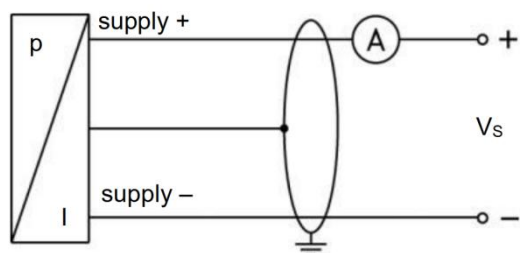
Cable lengths

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

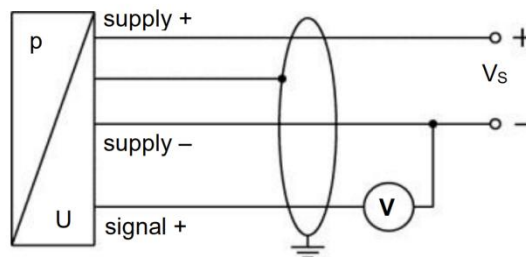
Other cable lengths on request

Wiring diagrams

2-wire-system (current)



3-wire-system (voltage)



Current output:

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

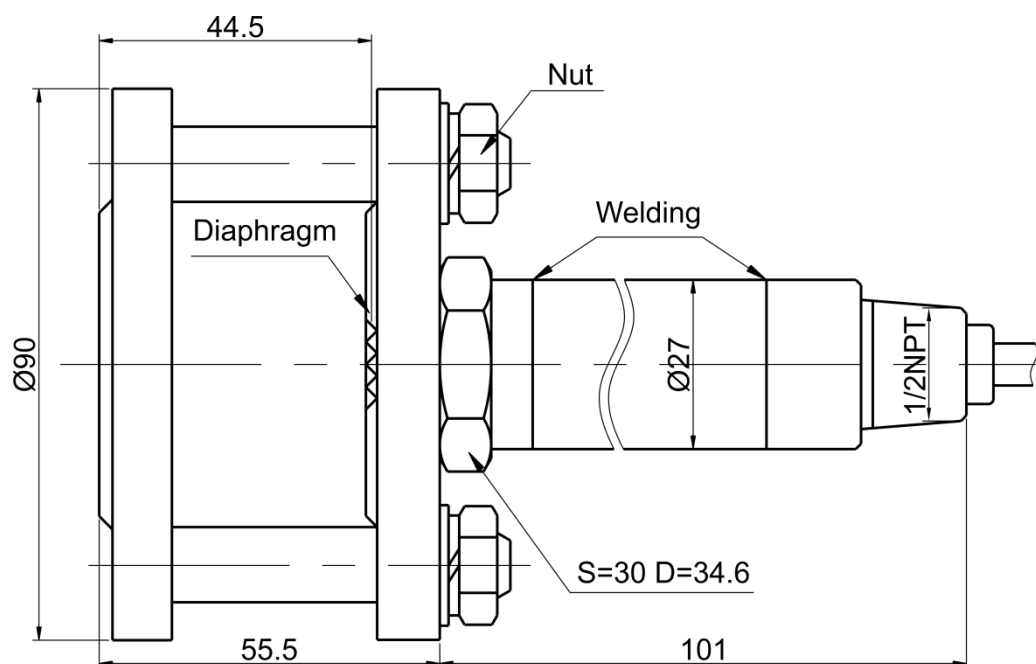
Voltage output:

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

RS485 output:

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

Dimension



Ordering code

SIN-P260-M2-03-K-A1-M3-1-20-N9													Description
SIN-P260-M2	-	-	-	-	-	-	-	-	-	-	-	-	
Measurement Range	03												3m(With weight block)
	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
			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

