

ANL340 Adaptive Level Transmitter

Description

ANL340 Adaptive Level Transmitter is a submersible level transmitter. It accurately measures static pressure of the liquid proportional to the level depth using high performance piezoresistive diffused silicon pressure sensor or ceramics sensors. The result is converted to standard current or voltage signal output through signal conditioning circuit, establishing the linear corresponding relation between the output signal and liquid depth to complete the measurement of the liquid depth. The product has advantages of high precision and small volume.

Submerge it directly into the liquid, the height between the end of the transmitter to the liquid surface is measured easily.



Specifications

Range (mH2O)	0~1	0~2	0~3.5	0~5	0~10	0~20
Overpressure	2	4	7	10	20	50
Range (mH2O)	0~50	0~100	0~200			
Overpressure	100	200	400			

Features

- Multiple output signals are optional
- All welded design, "0" leak points and permanent sealing
- Strong anti-interference, surge-proof
- Measurement Range: 0~1...200mH2O
- 316L Stainless steel isolation diaphragm, integrated design
- Anti-lightning, IEC61000-4-5/Level-4 Standard
- Excellent resistance against overload, shock and resistance to electromagnetic compatibility

Applications

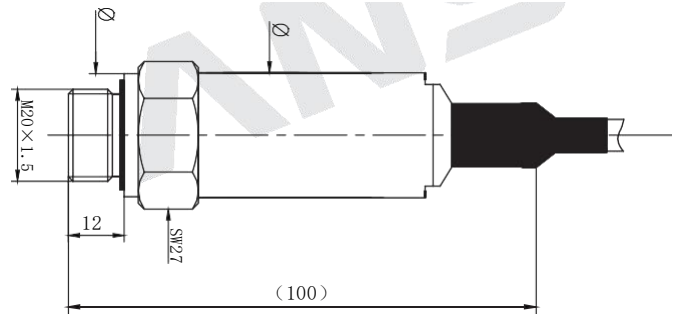
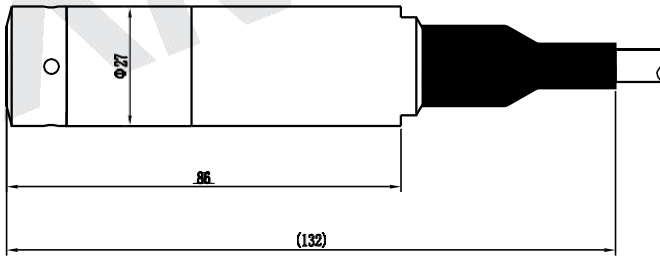
- Waterworks, Chemical Factory
- Sewage Service
- Deep Well and Dam
- Flood Control Works, Irrigation Project

Output	2-wire 4 ~ 20mADC; 11 ~ 30VDC
	3-wire 0 ~ 10VDC; 14 ~ 30VDC
	3-wire 0 ~ 5VDC; 8 ~ 30VDC
	3-wire 1 ~ 5VDC; 8 ~ 30VDC
	3-wire 0.5 ~ 4.5VDC; 8 ~ 30VDC
Accuracy	$\pm 0.25\% \text{ FS}$ $\pm 0.5\% \text{ FS}$ (Typical) $\pm 1\% \text{ FS}$ ($\leq 2\text{mH}_2\text{O}$)
Long-term Stability	$\pm 0.2\% \text{ FS/Year}$
Temp. Coefficient of zero	$< 2\text{mH}_2\text{O} \pm 0.05\% \text{ FS}/^\circ\text{C}$
	$\geq 2\text{mH}_2\text{O} \pm 0.03\% \text{ FS}/^\circ\text{C}$
Temp. Coefficient of span	$< 2\text{mH}_2\text{O} \pm 0.05\% \text{ FS}/^\circ\text{C}$
	$\geq 2\text{mH}_2\text{O} \pm 0.03\% \text{ FS}/^\circ\text{C}$
Compensation Temp.	$0^\circ\text{C} \sim +70^\circ\text{C}$
Operating Temp.	$-10^\circ\text{C} \sim 70^\circ\text{C}$
Storage Temp	$-20^\circ\text{C} \sim 85^\circ\text{C}$
Load Resistance (Ω)	Current (2-wire) : $\leq (\text{Supply Voltage} - 8\text{V}) / 0.02\text{A}$
	Voltage (3-wire) : $> \text{Max out} / 1\text{mA}$
Protection Class	IP68
Media	Media should be compatible with 316L and FKM
Cable	$\varnothing 7.5\text{mm}$ PU cable (length 1Meter typically, could be customized)

Size (Unit: mm)

Standard

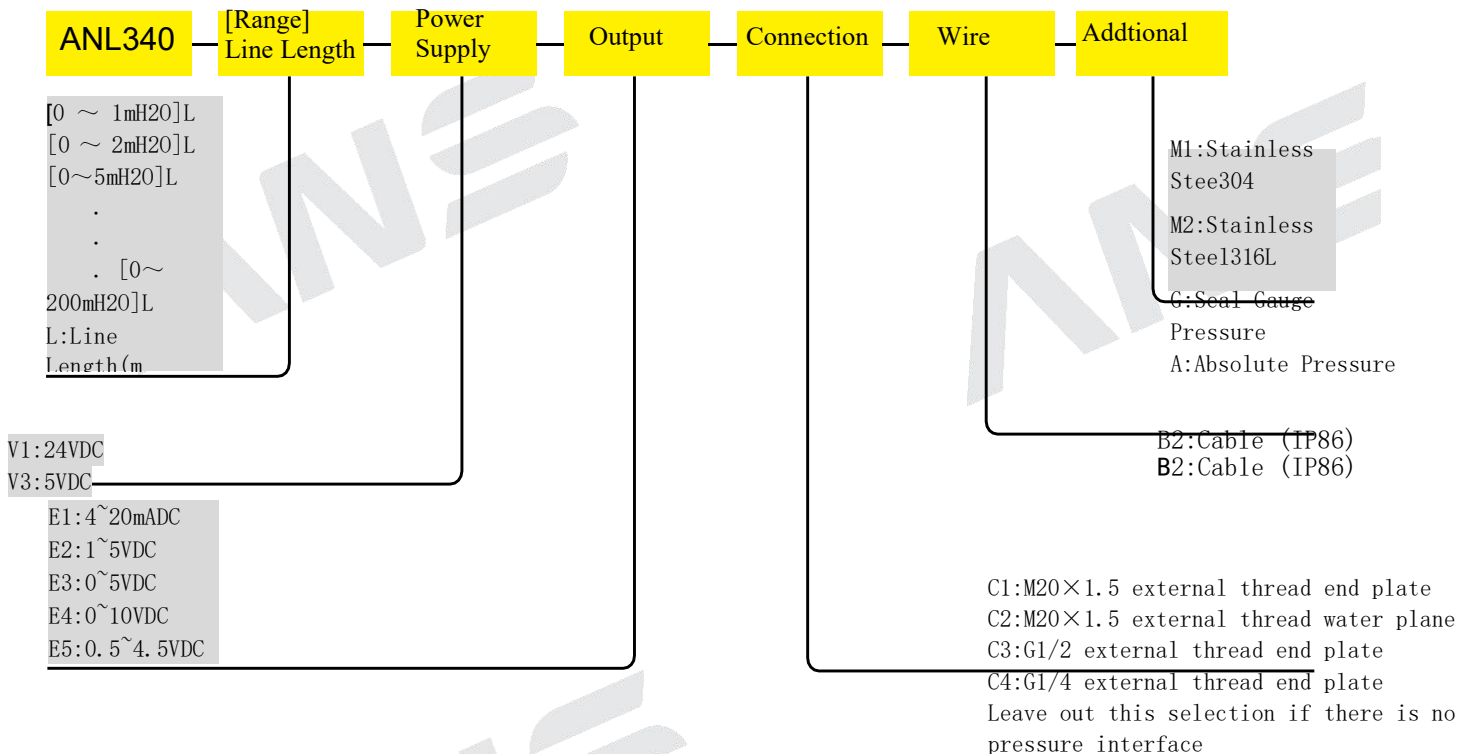
With Pressure Connection



Electrical Connection

Functional Definition	Definition	B2 (Cable)
2-wire (4 ~ 20mADC)	Positive (+V)	Red
	Negative (0V/+OUT)	Black
3-wire (Output)	Positive (+V)	Red
	Common (GND)	Black
	(+OUT)	White

Selection Guide



Noted:

- The range could be 0mH2O ~ 1mH2O ... 200mH2O;
- Please pay attention that the media should be compatible with the contacted parts.