

ANP342H High Stability Pressure Transmitter



Description

ANP342H high stability pressure transmitter uses imported high-performance diffused silicon pressure sensors as sensitive components, a high-speed AD sampling circuit, and temperature active compensation function. It is designed specifically for high-precision measurement applications, with a maximum measurement deviation of only 0.05% of the range.

Specifications

Range	-100kPa...0kPa ~ 10kPa...3.5MPa (Gauge Pressure)	
	0kPa ~ 70kPa...35MPa (Absolute Pressure)	
	0kPa ~ 3.5MPa...100MPa (Sealed Gauge pressure)	
Overload	2 times of URL pressure or 110MPa (Take Min.)	
Pressure Type	Gauge Pressure, Absolute Pressure, Sealed Gauge pressure	
Power Supply	10~28VDC	
Output Signal	4 ~ 20mADC	
	RS485 (Modbus-RTU)	
	4 ~ 20mADC+RS485(Modbus-RTU)	
Accuracy	±0.1%FS (default) ±0.05%FS(customized)	
Long-term Stability	±0.1%FS/ year	
Compensation Temp.	-10°C ~ 80°C	
Operating Temp.	-30°C ~ 80°C (plug)	-10°C ~ 70°C (cable)
Storage Temp.	-40°C ~ 120°C (plug)	-20°C ~ 85°C (cable)
Load Resistance(Ω)	Current output ≤ (supply voltage -10V) /0.02A	
Insulation Resistance	50MΩ@50VDC	
Protection Class	IP65 (B1)	IP68 (B2)
Electrical Connection	4-core plug or cable (Typically 1m, or customized)	
Sealing Ring	FKM	
Medium	Compatible with FKM and Stainless steel	

Features

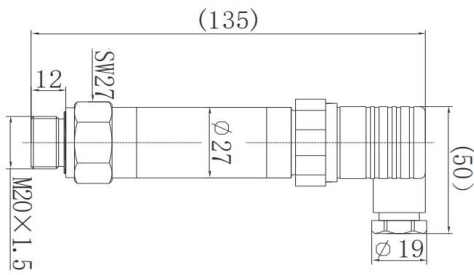
1. RS485 interface or 4-20mADC 2-wire current output
2. The entire temperature range adopts surface fitting nonlinear correction technology for digital compensation
3. Nominal accuracy of 0.1% FS, with no temperature error between 10-50 ° C (customizable to 0.05 level)
4. RS485 communication interface, standard Modbus RTU protocol
5. Response frequency 100Hz

Applications

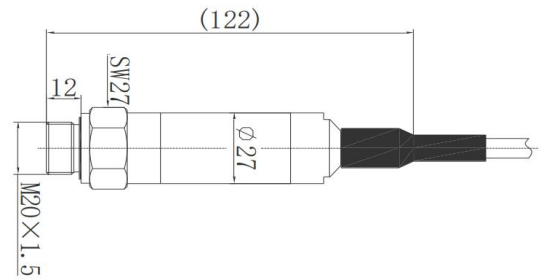
1. Measurement and experimental platform
2. Calibration techniques
3. Laboratory
4. Equipment construction and mechanical manufacturing
5. Sealing test

Size (mm)

B1 4-core plug /IP65



B2 cable/IP68



Electrical Connections

B1 plug		2-wire	4-wire (R1)	4-wire (R2)
	1	V+	V+	V+
	2	0V/OUT+	GND	0V/OUT+
	3	-	RS485A	RS485A
	⏏		RS485B	RS485B

B2 cable		2-wire	4-wire (R1)	4-wire (R2)
	red	V+	V+	V+
	black	0V/OUT+	GND	0V/OUT+
	yellow	-	RS485A	RS485A
	white	-	RS485B	RS485B

Selection Guide

Specification	Code	Description			Note
Model No.	ANP342H	Adaptive Smart Pressure Transmitter			
Range	[0~X kPa/MPa]	X: Actual Range Range : -100kPa...0kPa ~ 10kPa...100MPa			Negative pressure is selected based on actual range
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Power Supply	V1	24VDC			
	V2	12VDC			
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Output Signal	E1	4 ~ 20mADC			
	R1	RS485 (Modbus-RTU)			
	R2	4 ~ 20mADC+RS485(Modbus-RTU)			
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Pressure Connection	C1	M20×1.5 External thread, end face sealing			
	C2	M20×1.5 External thread, water line sealing			
	C3	G1/2 External thread, end face sealing			
	C4	G1/4 External thread, end face sealing			
	-				
Wiring Method	B1	Hesmann four core plug-in			
	B2	Cable outlet			Φ7.5mm PE cable length 1m customizable
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Material		isolation Diaphragm	Interface	Housing	
	M1	SS 316L	SS 304	SS 304	
	M2	SS 316L	SS 316L	SS 304	
	M3	SS 316L	SS316L	SS 316L	
	-				
Pressure Type	G	Gauge Pressure			-100kPa...0kPa ~ 10kPa...3.5MPa
	A	Absolute Pressure			0kPa ~ 70kPa...35MPa
	S	Sealed Gauge Pressure			0kPa ~ 3.5MPa...100MPa
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Additional Options	D2	4-digit LED digital display			Power supply 15~28VDC, Output type E1only
	D3	4-digit LCD digital display			

Note:

1. For special needs, please contact our company;

Selection Example: ANP342H[0 ~ 1MPa]-V1-R1-C1-B1-M1-G