



PRODUCT OVERVIEW

PRESSURE MEASUREMENT

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P90 Series Pressure Sensors for Universal Applications



Profiles:

Macsensor P90 is economic type pressure transducer designed for water pumps, water pipes, wall-hang boiler and liquid pressure measurement. It using imported high quality ceramic sensor core, it is high performance in low cost, high volume, commercial and industrial applications. Suitable for measuring the pressure of non-corrosive gas and liquid.

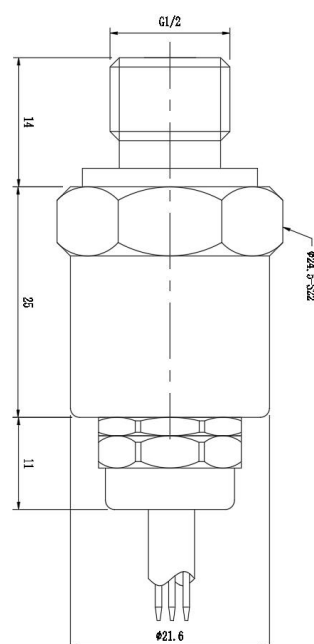
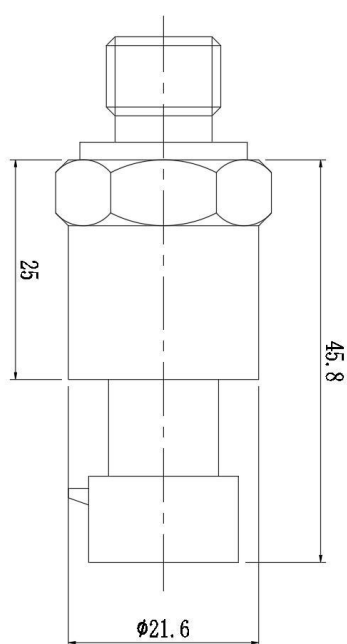
Features

1. Range: -1-1Bar,0 to 200Bar optional
2. State Accuracy: $\pm 1.5\%$ F.S. (typical)
3. Error: $\pm 3\%$ F.S. (including 0 ~ 80°C temperature error)
4. MEMS technology
5. High integration and high stability
6. Temperature compensation, signal amplification
7. EMI protection; CE Approved
8. Wide voltage power supply (12 ~ 30Vdc), it has the reverse polarity protection and short circuit protection.
9. Standard and custom options available in OEM quantities

Specifications

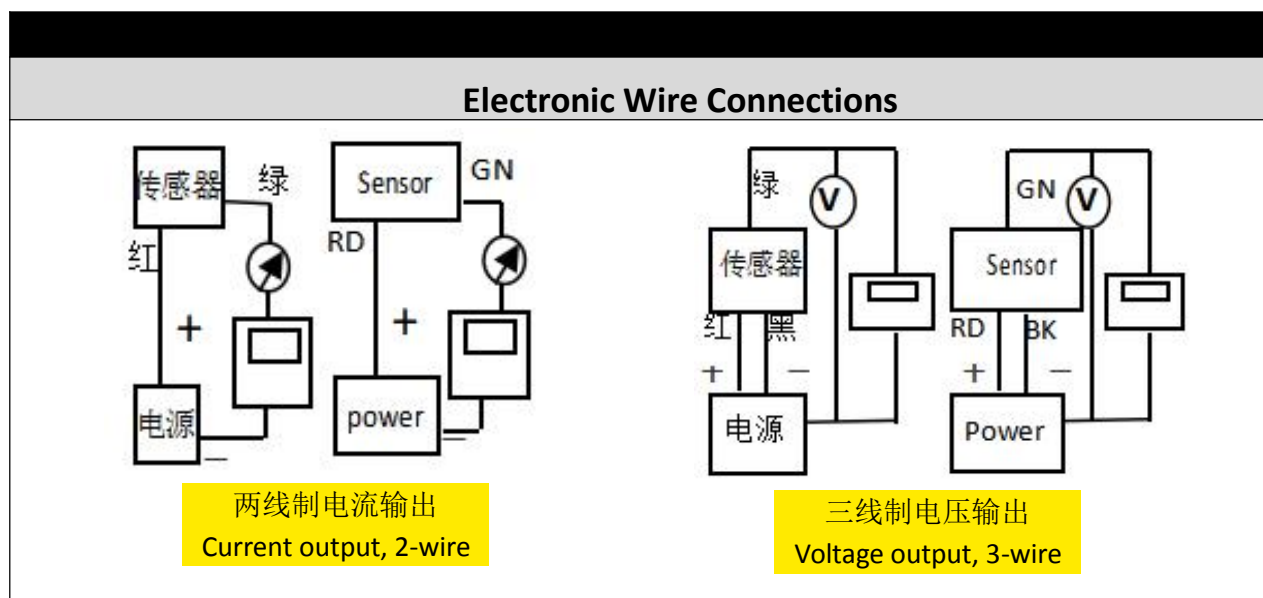
Parameter	Model	P90
Pressure Range	-1 to 1...0- 200bar	
Overload	150%F.S.	
Accuracy	$\leq 1.5\%F.S.$ (at 20~40℃); $\leq 3.0\%F.S.$ (at 0~80℃)	
Max Error	$\pm 3\%F.S.$ (including 0 ~ 90 ℃ temperature error)	
Working Temp	-30℃~100 ℃	
Storage Temp	-40℃~85℃	
Temperature Compensation	0℃~50℃	
Supply voltage	12-30Vdc	5Vdc $\pm 5\%$
Output voltage	4-20mA	0.5-4.5V ratio-metric
Supply current	$< 10mA$	
Output impedance	$\geq 2.5k\Omega$	
Pressure cycle life	$> 1000,000$	
Protection	IP54/IP65	
Pressure port	1pin-5Vdc,2pin-null,3pin-Vout,4pin-GND(Acquiescence type:C2521HF-4P)	
Measures media	Air, water, oil and other non-corrosive, non-solvent medium	
Vibration	10Hz,3mm per hour	
Connector	3 Pins Packard Connector; cable outlet	
Certificate approving	ROSH and CE Certificate.	

Dimension and Drawing



Unit, mm

Electronic Connections



Part Number Code Table For Pressure Range

000	-1-0	016	0-1.5	031	0-10	047	0-125
001	-1-1	017	0-1.6	032	0-12	048	0-150
002	-1-9	018	0-1.7	033	0-15	049	0-200
003	-1-10	019	0-1.8	034	0-16	X	Customized
004	-1-16	020	0-1.9	035	0-20		
005	-1-20	021	0-2.0	036	0-25		
006	-1-25	016	0-2.1	037	0-30		
007	-1-30	022	0-2.2	038	0-35		
008	-1-35	023	0-2.3	039	0-40		
009	-1-40	024	0-2.5	040	0-50		
010	-1-65	025	0-3	041	0-60		
011	0-0.5	026	0-4	042	0-65		
012	0-1.0	027	0-5	043	0-70		
013	0-1.1	028	0-6	044	0-80		
014	0-1.2	029	0-7	045	0-90		
015	0-1.3	030	0-8	046	0-100		

Order Information

PN SELECTION	P90 (Model)	3	A	049	P	1	5	G
Output	3=4-20mA 4=0.5-4.V Ratiometric							
Process Connection	A=G1/4" male 7=1/8" NPT M=7/16-20UNF Female X=By customized		G=1/4"NPT male K=7/16-20UNF male					
Pressure Measurement	Refer to <i>PART NUMBER CODE TABLE FOR RESSURE RANGE</i> on previous page and select your requested range code here.							
Pressure Unit	B=bar	P=Psi	M=MPa					
Accuracy	1=1.5%F.S(standard) 2=1%F.S(by customized)							
Electronic Connection	1=Cable 1 M 3=Cable 5M	E=Cable 2M 5=Packard 3 Pins	2=Cable 3M					
Pressure type	G=Gauge							