

PRODUCT OVERVIEW

PRESSURE MEASUREMENT

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P10 Series OEM Compact Pressure Sensors

PROFILE

The P10 series pressure sensors are applied in the refrigeration, compressor, engine fuel pressure, hydraulic pressure and gas pressure industries fields, which adopt the imported sensing technology and the advanced circuit design to avoid influences on the product caused by the temperature, humidity, mechanical fatigue and medium, thus to improve its permanent stability in the industrial environment. It is made of high quality materials with good integrity, free of leakage troubles. Digital circuits capable of strong RFI & EMI resistance and automatic temperature compensation are installed inside the transmitter, with feature including strong interference resistance, wide temperature compensation scope and flexible & various output forms, etc. The series products provide several optional pressure connectors and electric output forms for customers.



CHARACTERISTICS

- ☆ Accuracy: $\leq \pm 1.0\%$ F.S.
- ☆ Wide working temperature scope
- ☆ Automation temperature compensation.
- ☆ Excellent overload, Shock and erosion.
- ☆ Anti-corrosive diaphragm and port.
- ☆ OEM economic selection
- ☆ Mini dimension types
- ☆ 2 times range standard overload.
- ☆ 3 times range burst pressure
- ☆ CE approved

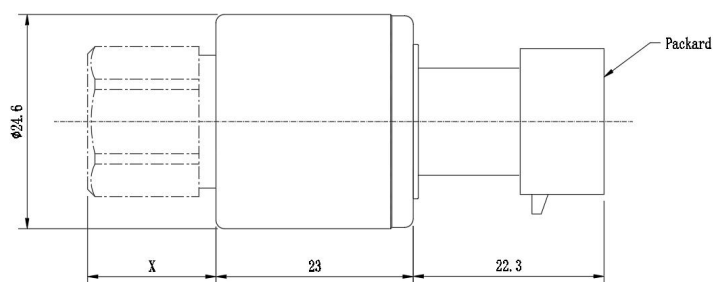
APPLICATION

- ★ Engine Fuel Pressure measurement
- ★ Refrigeration and Air Compressor
- ★ Hydraulic pressure controller
- ★ Petrochemical industry
- ★ HAVC System Application
- ★ Pressure meter
- ★ Laboratory equipment
- ★ Water pressure measurement
- ★ Saving water to irrigate
- ★ Liquid and Gas pressure measurement

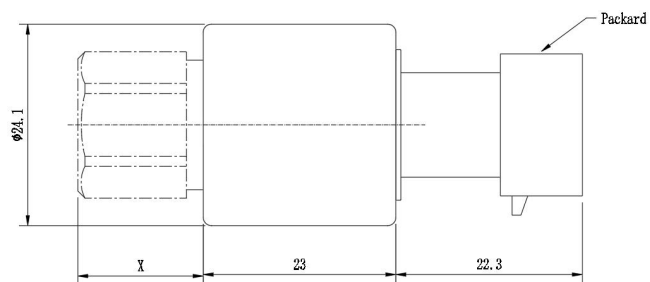
SPECIFICATIONS

Model	P10 Series
Parameter	
Pressure Range	P10R: -1 to 0 ...0 to 200Bar (Gauge /negative/absolute pressure optional) P10C: -1-0-10 bar...65bar(Sealed pressure); 0-10...50bar(Absolute pressure) optional P10U: -1 to 1..0 to 0.1...0 to 600 Bar
Pressure Type	Gauge pressure; Absolute pressure optional
Signal output	P10R:4-20mA; 0-5V; 0-10V; 0.5-4.5V ratiometric P10C: 0.5~4.5V ratiometric P10U:4-20mA; 0-5V; 0-10V; 0.5-4.5V ratiometric
Power supply	P10R: 8-30Vdc ;13-30Vdc;5Vdc±5% P10C: 5Vdc±5% P10U: 7-30Vdc; 8-30Vdc; 13-30Vdc; 5Vdc±5%
Accuracy	P10R: Min.: ≤ ±1.5%F.S;Typical: ≤ ±1.0%F.S;Max: ≤ ±0.5%F.S P10C:≤ ±1.0%F.S (Typical) P10U:≤±1.0%F.S(typical) ; ≤±0.5%F.S(by customized, excluding ranges <10bar)
Stability	0.2%F.S±0.05%/year
Working Temp.	P10R:-40°C~105°C (CR O-ring); -40°C~135°C (HNBR O-ring); -20°C~135°C (FKM O-ring) P10C:-35°C~105°C P10U:-20°C~80°C (corrosive medium); -40°C~80°C (non-corrosive medium)
Storage Temp	-40°C~105°C
Temperature Compensation	0~50°C
Medium compatible	Compatible with 304 Stainless Steel, ceramic.
Overload	150% F.S
Electronic connection	Terminal Box (DIN43650 Hirschmann Connector; (P10U) Directly sealed cable;(P10U) M12 4 Pins connector; (P10U) Packard 3 Pins connector (P10R/P10C/P10U)
Pressure connection port	P10R:1/4''NPT male, 7/16''-20 UNF male/Female (by customized) P10C: 7/16-20 UNF-2B Female or by customized P10U: 1/8''NPT male, 1/4''NPT male,1/4''NPT female, G1/2'' male, G1/4''male/female, 7/16''-20 UNF male optional
Certificate	CE
IP rating	IP65~IP67 (depending on models)

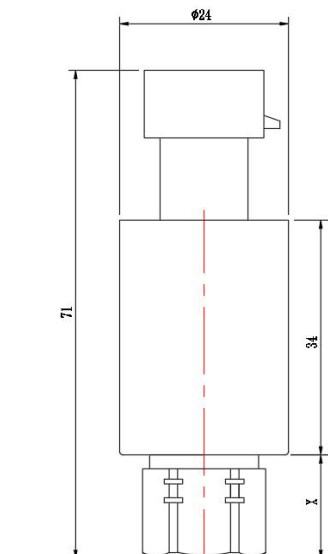
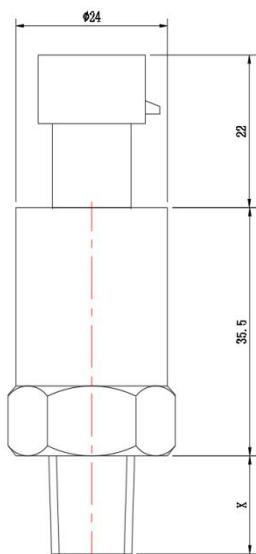
DIMENSION AND DRAWING



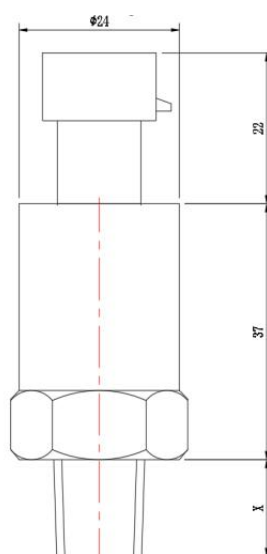
P10C (brass housing)



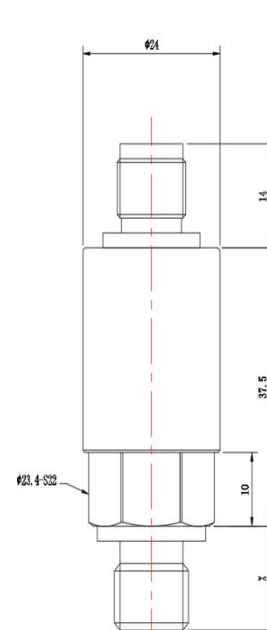
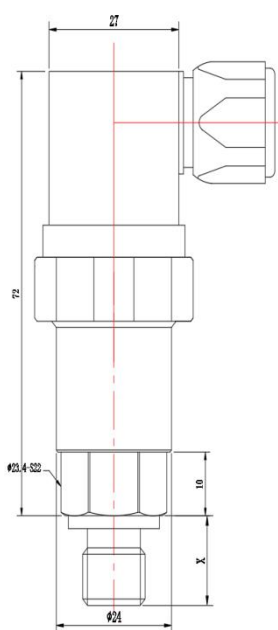
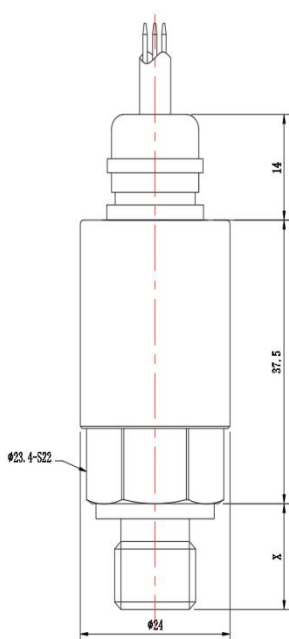
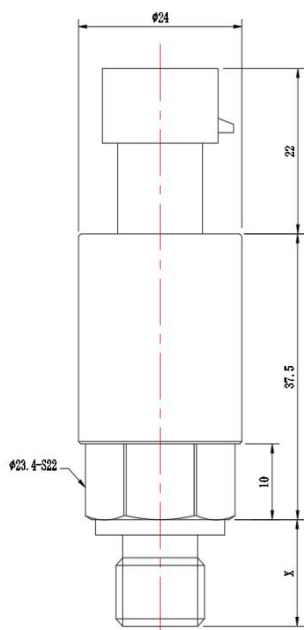
P10R (SS304 housing)



P10R (Pressure <math>< 65\text{Bar}</math>)

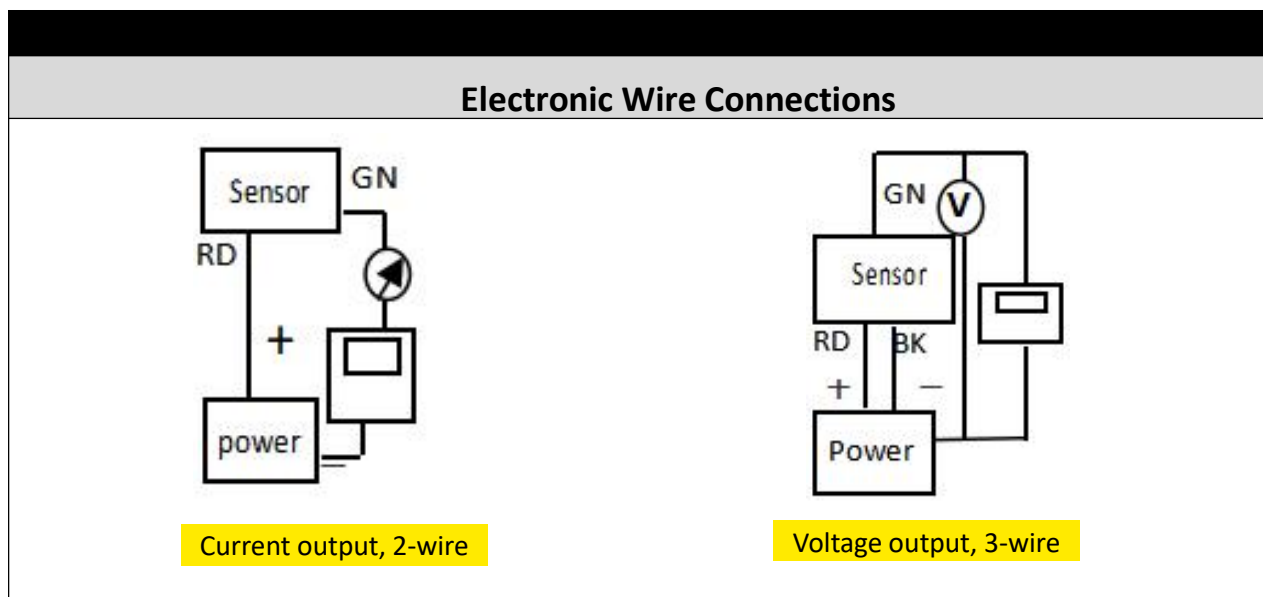


P10R (Pressure $\ge 65\text{Bar}$)



P10U

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	050	0-250
004	-1-16	020	0-1.9	035	0-20	051	0-300
005	-1-20	021	0-2.0	036	0-25	052	0-350
006	-1-25	016	0-2.1	037	0-30	053	0-400
007	-1-30	022	0-2.2	038	0-35	054	0-450
008	-1-35	023	0-2.3	039	0-40	055	0-500
009	-1-40	024	0-2.5	040	0-50	056	0-600
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	X	Customized

ORDER INFORMATION

P10 SELECTION	U	G	E5	1	S11	031	B	0	2	000
Type	U=Universal C=Air compression R=Refrigeration									
Pressure type	G=Gauge S=Sealed A=Absolute									
Output	E5=4-20mA E8=0.5-4.5V		E6=0-5V X= By Customized	E7=0-10V						
Process Connection	1=7/16-20UNF male 3= 1/4" NPT male 5=1/8"NPT male 7=G1/4"Female 9=G1/2" male X= By customized		2=7/16-20UNF Female 4=1/4" NPT Female 6=G1/4"male 8= M20x1.5 male 10=1/2" NPT male							
Power supply	S6=5Vdc S43=13-30Vdc		S11=7-30Vdc X= By customized	S12=8-30Vdc						
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	K=KPa	M=MPa						
Accuracy	8=1.5%F.S		0=1.0%F.S		1=0.5%F.S					
Electronic Connection	1=M12 4 Pins 3=Hirschmann DIN43650			2=Packard 3 Pins 5=Direct outlet cable						
Cable length	000=0m	001=1m	X=X m							

Part No.

P10UG3A013B221