

For Low and High-Volume Requirements

- 316L stainless-steel wetted pressure sensing element
- Gauge, sealed gauge & absolute
- 4...20mA, 0...5VDC, 1...5VDC, 0...10VDC, 1...10VDC, 0.5...4.5 VDC ratio & 0.5...4.5VDC non-ratiometric output options
- DIN-A & DIN-C, M12, Deutsch 2, 3 and 4 pole, Packard Metri-Pack & Integrated cable options
- High – volume OEM budget friendly
- Compact & light weight



About

The P1 is a competitively priced high-volume OEM transmitter. The all welded stainless-steel construction make it suitable for applications calling for the monitoring of pneumatic and fluid applications. From full vacuum to 7,500 psig, the P1 can accommodate of host of applications.

Applications

- ✓ Hydraulics
- ✓ Pneumatic
- ✓ Liquid & gasses
- ✓ Chemicals
- ✓ Compressors
- ✓ HVAC
- ✓ Refrigeration
- ✓ CNC machines

Build Your Part Number

Series P1

Example: P1SG37M5GBL6F
PSE127

Series		
P1		
Pressure Reference - select one		
G	Gauge	
S	Sealed Gauge	
A	Absolute	
Output Signal - select one		Supply
A	4 ... 20 mA	24 (12... 36) VDC
B	0 ... 5 VDC	24 (12 ... 36) VDC
E	1...5 VDC	24 (12 ... 36) VDC
C	0 ... 10 VDC	24 (12 ... 36) VDC
G	1...10 VDC	24 (12 ... 36) VDC
D	0.5 ... 4.5 VDC ratiometric	5 VDC
H	0.5 ... 4.5 VDC non-ratiometric	24 (12 ... 36) VDC
Pressure Range (psi) - select one		Over Pressure (psi)
11 -14.5 ... 0		22.5
12 0 ... -14.5		22.5
13 -14.5 ... 15		22.5
14 -14.5 ... 30		45
15 0 ... 1.5		15
16 0 ... 2		15
17 0 ... 2.5		15
18 0 ... 5		15
19 0 ... 10		20
21 0 ... 15		22.5
22 0 ... 20		30
23 0 ... 25		37.5
24 0 ... 30		45
25 0 ... 50		75
26 0 ... 100		150
27 0 ... 150		225
28 0 ... 200		300
29 0 ... 250		375
31 0 ... 300		450
32 0 ... 400		600
33 0 ... 500 (sealed gauge)		750
34 0 ... 1000 (sealed gauge)		1500
35 0 ... 1500 (sealed gauge; internal damping element / 1.2mm orifice)		2250
36 0 ... 2000 (sealed gauge; internal damping element / 1.2mm orifice)		3000
37 0 ... 3000 (sealed gauge; internal damping element / 1.2mm orifice)		4500
38 0 ... 5000 (sealed gauge; internal damping element / 1.2mm orifice)		7500
39 0 ... 7500 (sealed gauge; internal damping element / 1.2mm orifice)		11250
XX Use "XX" for custom ranges (Ex: 0 ... 550 psi) Please inform range below part number		
Accuracy - select one		
M	0.5% (standard)	
H	0.25%	
Process Connection - select one; see diagrams page 4		
5A	1/8" NPT male	
5C	1/4" NPT male	
5G	7/16"-20UNF male, SAE 4	
5H	7/16"-20UNF female, SAE J512 with valve opener	
5L	9/16"-18UNF male, SAE6	
5N	G1/4" male	
Process Connection Thread Sealing Ring - select one only for only for options 5G, 5L, 5N, otherwise please skip		
B	NBR	
F	FKM	

Build Your Part Number

Series P1

Example: P1SG37M5GBL6F
PSE127
Wetted Pressure Port - select one

S	304 stainless steel (standard)
L	316L stainless steel

Electrical Connection - select one; see diagrams page 5 for dimensions & pin-out

6A	DIN 43650-C micro-mini (9.4mm)
6C	Male electrical connector M12x1, 4-pole
6E	Deutsch 2-pole, DT04-2P
6F	Deutsch 3-pole, DT04-3P
6G	Deutsch 4-pole, DT04-4P
6H	Packard Metri-Pack
6K	0.5 Meter PVC shielded cable with flying leads
6L	1 Meter PVC shielded cable with flying leads
6M	2 Meter PVC shielded cable with flying leads
6N	3 Meter PVC shielded cable with flying leads
6P	5 Meter PVC shielded cable with flying leads
6Q	7 Meter PVC shielded cable with flying leads
6R	10 Meter PVC shielded cable with flying leads

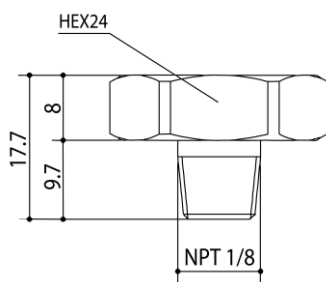
Mating Electrical Connection Assembly – optional; will be quoted as a separate line item

Part#	
PSE96	DIN 43650-C (9.4mm) female with cable gland, field wireable
PSE97	DIN 43650-C (9.4mm) female with 1 meter PVC unshielded cable
PSE98	DIN 43650-C (9.4mm) female with 3 meter PVC unshielded cable
PSE99	DIN 43650-C (9.4mm) female with 5 meter PVC unshielded cable
PSE100	DIN 43650-C (9.4mm) female with 7.5 meter PVC unshielded cable
PSE101	DIN 43650-C (9.4mm) female with 10 meter PVC unshielded cable
PSE102	DIN 43650-C (9.4mm) female with 20 meter PVC unshielded cable
PSE1	M12x1, 5-pole female straight with cable gland, field wireable
PSE150	M12x1, 5-pole female straight with 1 meter PVC shielded cable
PSE151	M12x1, 5-pole female straight with 3 meter PVC shielded cable
PSE152	M12x1, 5-pole female straight with 5 meter PVC shielded cable
PSE153	M12x1, 5-pole female straight with 7.5 meter PVC shielded cable
PSE154	M12x1, 5-pole female straight with 10 meter PVC shielded cable
PSE155	M12x1, 5-pole female straight with 20 meter PVC shielded cable
PSE121	Deutsch DT06-2P female with 1 meter PVC unshielded cable
PSE122	Deutsch DT06-2P female with 3 meter PVC unshielded cable
PSE123	Deutsch DT06-2P female with 5 meter PVC unshielded cable
PSE124	Deutsch DT06-2P female with 7.5 meter PVC unshielded cable
PSE125	Deutsch DT06-2P female with 10 meter PVC unshielded cable
PSE126	Deutsch DT06-2P female with 20 meter PVC unshielded cable
PSE127	Deutsch DT06-3P female with 1 meter PVC unshielded cable
PSE128	Deutsch DT06-3P female with 3 meter PVC unshielded cable
PSE129	Deutsch DT06-3P female with 5 meter PVC unshielded cable
PSE130	Deutsch DT06-3P female with 7.5 meter PVC unshielded cable
PSE131	Deutsch DT06-3P female with 10 meter PVC unshielded cable
PSE132	Deutsch DT06-3P female with 20 meter PVC unshielded cable
PSE133	Deutsch DT06-4P female with 1 meter PVC unshielded cable
PSE134	Deutsch DT06-4P female with 3 meter PVC unshielded cable
PSE135	Deutsch DT06-4P female with 5 meter PVC unshielded cable
PSE136	Deutsch DT06-4P female with 7.5 meter PVC unshielded cable
PSE137	Deutsch DT06-4P female with 10 meter PVC unshielded cable
PSE138	Deutsch DT06-4P female with 20 meter PVC unshielded cable
PSE205	Packard Metri-Pack with 1 meter PVC shielded cable
PSE206	Packard Metri-Pack with 3 meter PVC shielded cable
PSE207	Packard Metri-Pack with 5 meter PVC shielded cable
PSE208	Packard Metri-Pack with 7.5 meter PVC shielded cable
PSE209	Packard Metri-Pack with 10 meter PVC shielded cable
PSE210	Packard Metri-Pack with 20 meter PVC shielded cable

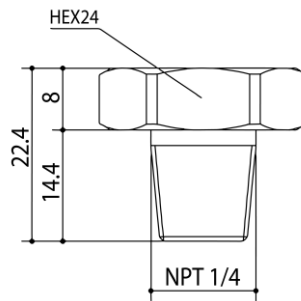
Technical Parameters

Technical Parameters		
Accuracy	At 77°F (+/-9°F)	± 0.5% FS typical ± 0.25% FS typical
	Hysteresis at 77°F	± 0.1% FS typical
	Repeatability	± 0.1% FS typical
	Response time	≤ 90ms (up to 90% FS)
	Temperature Drift (<5 psig)	± 2% FS typical (0...140°F)
	Temperature Drift (>5 psig)	± 1.5% FS typical (-4...185°F)
Environmental	Media temperature	-20...+221°F
	Ambient temperature	-4...+185°F
	Storage temperature	-40...+257°F
	Protection	IP65
	Vibration	Sine curve: 20g, 25Hz-2kHz, IEC 600068-2-6 Random: 7.5 grms, 5Hz-1kHz; IEC 60008-2-6
	Shock	200g / 1ms: IEC 60068-2-27 Free fall: 1m, IEC 60068-2-32
	Insulation resistance	≥100M ohm / 500VDC (200M ohm / 250VDC)
EMC	Immunity	IEC 61000-6-2 Radiation: IEC 61000-6-3
Mechanical	Wetted part: pressure sensing membrane	SS 316L
	Wetted parts: pressure port	SS 304 SS 316L
	Wetted part: pressure port sealing ring	NBR FKM
	Weight	120 – 150g

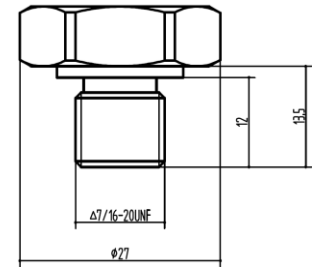
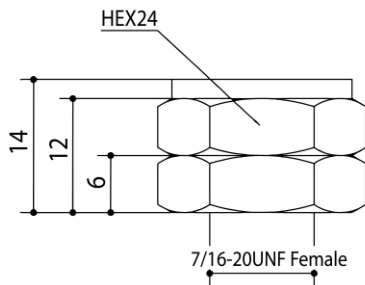
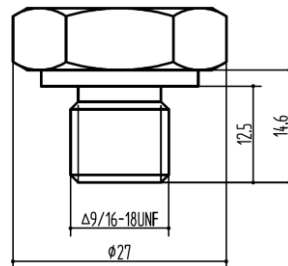
Process Connection Dimensions



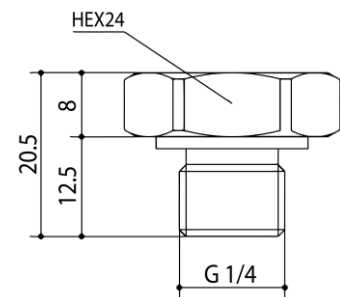
1/8" NPT male



1/4" NPT male

7/16"-20UNF-2A male
SAE J1926-27/16"-20UNF female
SAE J512 with valve opener

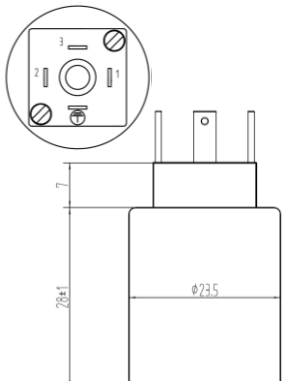
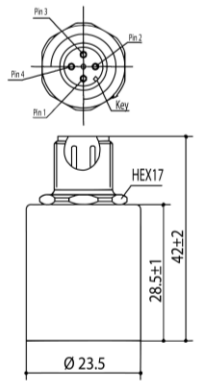
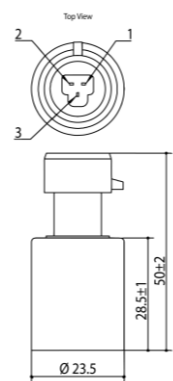
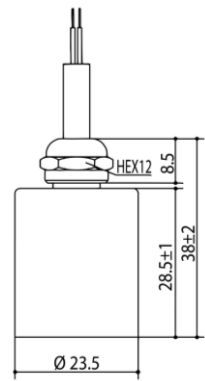
9/16"-18UNF



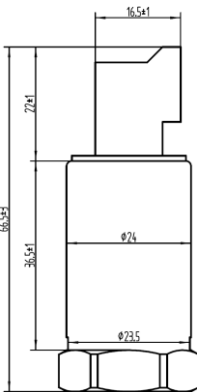
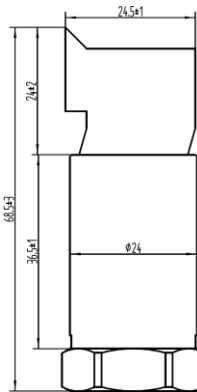
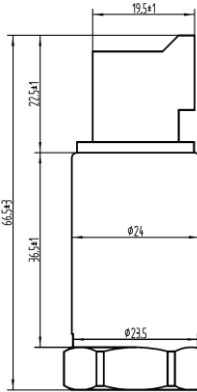
G1/4" male

Electrical Connection Dimensions & Pin-Out

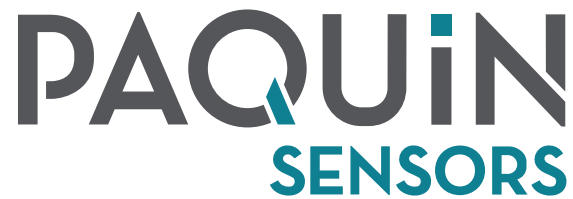
Protection / Electrical Connection

Connector Code	DIN 43650-C micro-mini (9.4mm)	Male electrical connector M12x1, 4-pole	Packard Metri-Pack	PVC shielded cable with flying leads (24 AWG)
Dimensions	6A 	6C 	6H 	6K...R 
Protection	IP65	IP65	IP67	IP68
Connection Mode Current (2 Wires)	Pin 1: V+ Pin 2: Output	Pin 1: V+ Pin 2: Output	Pin 1: V+ Pin 2: Output	Red: V+ Green: Output
Connection Mode Voltage (3 Wires)	Pin 1: V+ Pin 2: V- Pin 3: Output	Pin 1: V+ Pin 2: Output Pin 3: V-	Pin 1: V+ Pin 2: V- Pin 3: Output	Red: V+ Green: V- Yellow: Output

Protection / Electrical Connection

Connector Code	DT04, 2 pole	DT04, 3 pole	DT04, 4 pole
Dimensions	6E 	6F 	6G 
Protection	IP67	IP67	IP67
Connection Mode Current (2 Wires)	Pin 1: V+ Pin 2: Output	Pin 1: V+ Pin 2: Output	Pin 1: Output Pin 2: V+
Connection Mode Voltage (3 Wires)	N/A	Pin 1: V+ Pin 2: V- Pin 3: Output	Pin 1: V- Pin 2: V+ Pin 4: Output

Additional Information



Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.

We collaborate with our customers to match the best product technologies with your unique application requirements.

Please [contact us](#) or call +1 (800) 831-8217 anytime to discuss your needs!