

Pressure Switch Transmitter Combo

- 4-digit LED or LCD on-site display
- Pressure ranges up to 60 MPa gauge or 10 MPa absolute, depending on configuration
- Output options include 4–20 mA, PNP/NPN electronic switches, and relay switch versions
- Media temperature range: -40 to 257°F (-40 to 125°C)
- 316L stainless steel wetted pressing sensing element
- IP65 protection rating with stainless steel process connection options



About

The P21 is a digital pressure switch transmitter that combines pressure measurement, local display, switch output, analog output, and control functions in one compact device. It uses a high-precision, high-stability silicon piezoresistive sensor with dedicated signal conditioning for reliable pressure monitoring. The product supports on-site LED or LCD display, 4–20 mA analog output, and switch outputs including PNP, NPN, or relay options. It is designed for liquid and gas pressure applications compatible with its wetted materials, with available threaded and Tri-Clamp process connections.

Applications

- ✓ Industrial Automation
- ✓ Test Benches
- ✓ Laboratories
- ✓ Engines & Compressors
- ✓ Environmental Protection
- ✓ Petrochemical Industry
- ✓ Water Treatment Systems
- ✓ More

Build Your Part Number

Series P21

Example: P21G3315GLF1E1
PSE154

Series
P21

Pressure Reference - select one	
G	Gauge
A	Absolute

Output Signal - select one		Supply Voltage
1	4 ... 20 mA	12 ... 32 VDC
2	4 ... 20 mA + 2 NPN switches	12 ... 32 VDC
3	4 ... 20 mA + 2 PNP switches	12 ... 32 VDC
4	4 ... 20 mA + 1 relay switch	18 ... 32 VDC
5	2 NPN switches	12 ... 32 VDC
6	2 PNP switches	12 ... 32 VDC
7	1 relay switch	18 ... 32 VDC

Pressure Range (psi) - select one		Over Pressure (psi)	Pressure Reference
14	-14.5 ... 30	45	Gauge or Absolute
18	0...5	7.5	Gauge or Absolute
19	0..10	15	Gauge or Absolute
21	0..15	22.5	Gauge or Absolute
22	0...20	30	Gauge or Absolute
23	0...25	37.5	Gauge or Absolute
24	0 ... 30	45	Gauge or Absolute
25	0 ... 50	75	Gauge or Absolute
26	0 ... 100	150	Gauge or Absolute
27	0 ... 150	225	Gauge or Absolute
28	0 ... 200	300	Gauge or Absolute
29	0 ... 250	375	Gauge or Absolute
31	0 ... 300	450	Gauge or Absolute
32	0 ... 400	600	Gauge or Absolute
33	0 ... 500	750	Gauge or Absolute
34	0 ... 1000	1500	Gauge or Absolute
35	0 ... 1500	2250	Gauge or Absolute
36	0 ... 2000	3000	Gauge
37	0 ... 3000	4500	Gauge
38	0 ... 5000	7500	Gauge
39	0 ... 7500	11250	Gauge
85	0 ... 8500	12750	Gauge
XX	For custom ranges please inform below part number (Ex: 0...550 psi)		

Process Connection - select one; see page 3 for pictorial examples	
5A	1/8" NPT male
5C	1/4" NPT male
5E	1/2" 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
5Q	G1/2" male
5V	1.5" Tri Clamp (50.5mm) - note: 250 psi max
5W	2" Tri Clamp (64mm) - note: 250 psi max
X	Other clamp sizes on request

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Series P21

**Example: P21G3315GLF1E1
PSE154**

Pressure Port Material – select one	
S	304 Stainless Steel (standard)
L	316L Stainless Steel

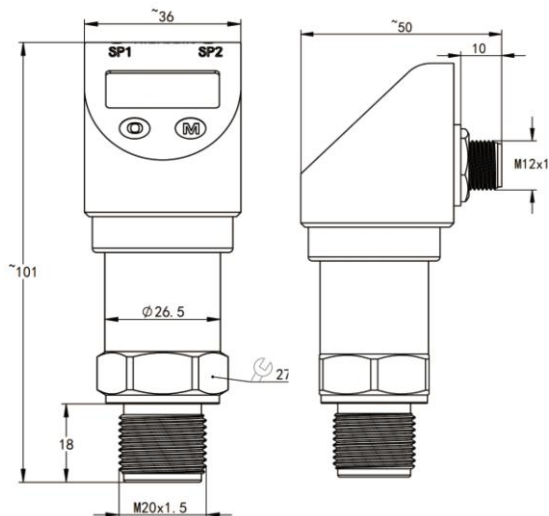
Wetted O-ring Material – select one	
N	NBR / -40°F ... +248°F (-40°C ... 120°C)
F	FKM / -4°F ... +392°F (-20°C ... 200°C)
E	EPDM / -67°F ... +302°F (-55°C ... 150°C)

Visual Display Type – select one	
1	LED
2	LCD

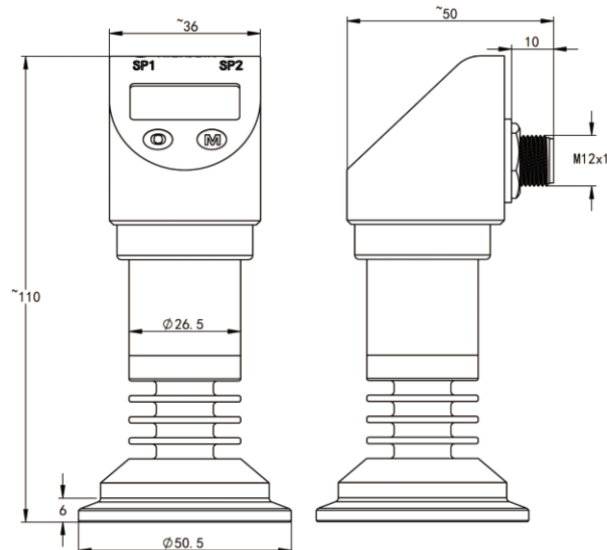
Electrical Connection – select one	
E1	M12 x 1, 5 pole

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

**Pictorial
Threaded Port**



**Pictorial
Tri-Clamp Port**



Technical Parameters

Technical Parameters

Performance	Pressure Range		
		Gauge	-14.5...8,500 psi
		Absolute	-14.5...1,500 psi
		Overload	1.5x full scale
		Remark	Maximum 2 MPa for Tri-Clamp
	Accuracy	±0.5% F.S	
	Long-Term Stability	±0.3% F.S/year	
	Accuracy Compliance	IEC60770 (non-linearity, hysteresis, repeatability)	
Environmental	Media Compatibility	Liquids and gases compatible with wetted materials	
	Media Temperature	-40°F ... +257°F (-40°C ... 125°C)	
	Ambient Temperature	-40°F ... +158°F (-40°C ... 70°C) LED; -4°F ... +140°F (-20°C ... 60°C) LCD	
	Storage Temperature	-22°F ... +158°F (-30°C ... 70°C)	
	Compensation Range	32°F ... +158°F (0°C ... 70°C)	
	Zero Temp Drift	±1.0% F.S. from reference 25°C	
	Span Temp Drift	±1.0% F.S. from reference 25°C	
	Protection	IP65	
	Exception*	±2.0% F.S. for 10 kPa range, 32°F ... +140°F (0°C ... 60°C)	
Electrical	Power	Output	Supply Voltage
		4 ... 20 mA	12 ... 32 VDC
		4 ... 20 mA + 2 electronic switches	12 ... 32 VDC
		4 ... 20 mA + 1 relay switch	18 ... 32 VDC
	Switch Alert		
		Switch Type	PNP / NPN
		Load Capacity	≤300mA / 24VDC
		Life Span	> 1 million cycles
	Relay Switch Alert		
		Type	Relay Switch
		Load Capacity	≤1A / 24VDC
		Life Span	> 1 million cycles
	LED Display		
		Type	4-digit numeric
		Range	-1999 ... 9999
	LCD Display		
		Type	Analog bar graph, pressure unit display
	Range	-1999 ... 9999	
Materials	Pressure Port	Stainless Steel 304 / Stainless Steel 316L	
	Sensor	Stainless Steel 316L	
	O-rings	NBR / FKM / EPDM	

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