

## SIER ELECTRONICS SPT21C2 Pressure Transmitter



### Features

- Exceptional Long-Term Stability
- Range from 3bar up to 2500bar
- Full welded construction
- SS 17-4PH wetted parts
- Short protection and reverse polarity protection
- Multiple output selection
- Compact size

**SPT21C2** series offer high levels of stability and reliability by using sputtered thin film pressure sensor and high-performance circuit. The sensor and electronic housing are all welded to pressure port. It also allows to use our mobile app to do transmitter range shifting and zero adjustment without pressure applied. This product can be used in aviation, ship building, rail transit equipment, engineering equipment, vehicle braking system, hydraulic system, engine pressure, industrial process automation system, etc.

### Specification

Measuring medium	Gas / Liquid
Long term stability	±0.1% FS / year
Offset thermal drift	0.005% FS/°C
Medium Temperature	-70 ~ 200°C
Power supply	11 ~28VDC
Response time	≤ 1 ms
Protection class	IP65, IP67, IP68 depends on electrical connection option selected
Weight	50 ~ 150g
Accuracy(%FS)	0.1, 0.25, 0.5 optional
Response time	≤ 1 ms
Span thermal drift	0.01% FS/°C
Environmental temperature	-55 ~ 155°C
Output signal	4~20mA, 0~1...10VDC
Product life	Designed 100M cycles
Electrical connection	DIN43650/M12/cable

**Free Call 0800 323 327**

ECEFAST NZ LIMITED NZBN: 9429037885434

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## Pressure Capability

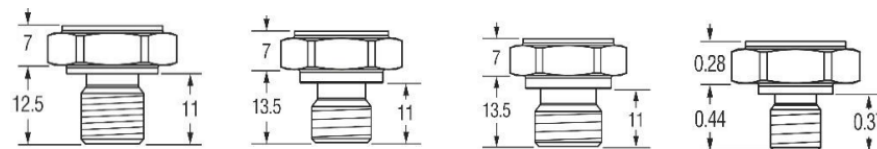
Pressure Range(bar)	Proof pressure (x Full scale)	Burst Pressure (x Full scale)
5....1000	2 x FS	10 x FS & ≤4000bar
1000...1600	1.5 x FS	≤4000bar
1600....2500	1.5 x FS & ≤3000bar	≤4000bar

## Construction and Outline Dimension

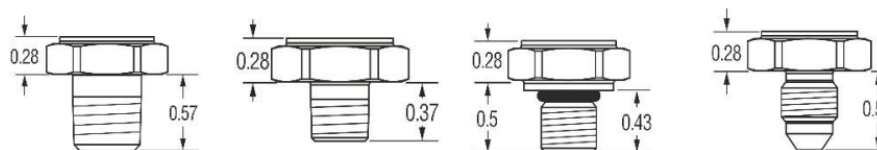
Construction material

Housing	Wetted parts	Sealing gasket	plug	cable
304 SS	17-4PH	Viton	Plastic	PE/PVE/PUR

## Pressure ports



Size	C2=G1/4-19A	M12x1.5	M14x1.5	3/8-24UNF
Torque	30-35NM	28-30NM	30-35NM	18-20NM



Size	1/4-18NPTF	1/8-27NPTF	7/16-20UNF	7/16-20UNF 37°
Torque	2-3TFFT*	2-3TFFT*	18-20NM	15-16NM

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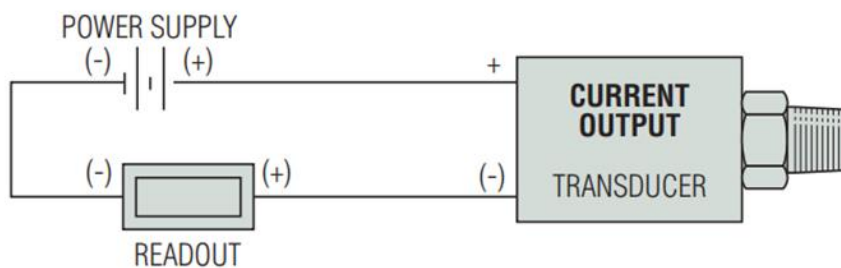
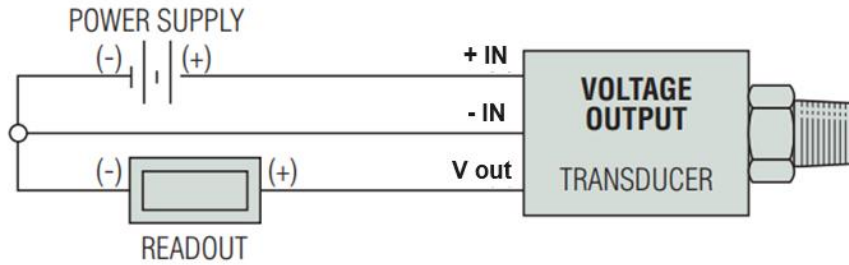
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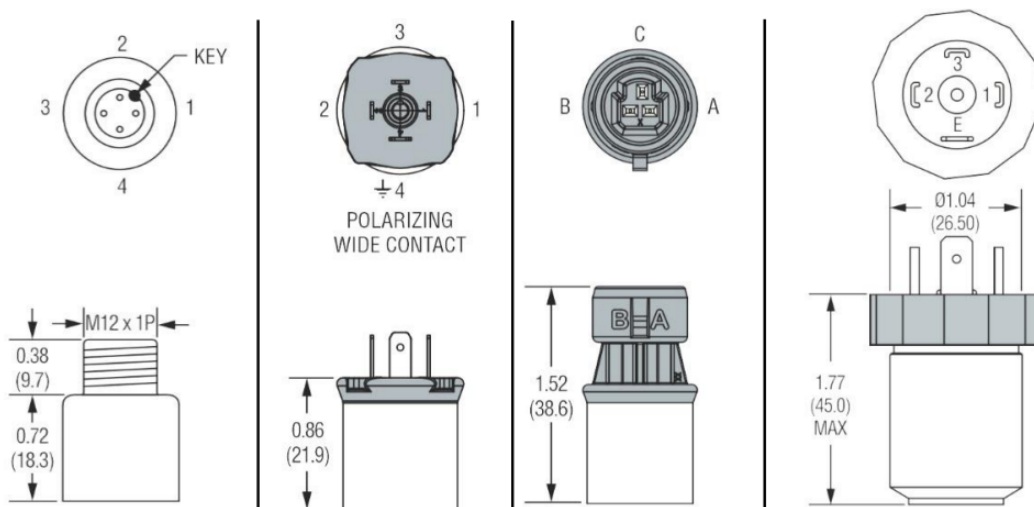
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### Connection schematic

Current version load resistance Max. =  $(U-8)/0.02\Omega$ . U is the real supply voltage



### Electrical Connection



Pin	Current	Voltage	Current	Voltage	Current	Voltage	Current	Voltage
1	+IN	+IN	+IN	+IN	A+IN	A+IN	+IN	+IN
2	-IN	-IN	-IN	-IN	B-IN	B-IN	-IN	-IN
3	Null	Vout	Null	Vout	C Null	C Vout	Null	Vout
4	PE	PE	PE	PE	----	----	PE	PE

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<b>SPT21</b>	<b>Pressure Transmitter</b>	
<b>C2</b>	Pressure Range: 5 ~2500 bar	
<b>X</b>	Actual measuring range: 0-2.5, 0-4, 0-6, 0-10, 0-16, 0-25, 0-100, 0-250	
	Output	
<b>E</b>	4 ~ 20 mA	
<b>J</b>	0 ~ 5VDC	
<b>V</b>	0 ~ 10VDC	
<b>VI</b>	1 ~ 5VDC	
<b>V2</b>	0.4 ~ 4.5VDC	
	Code	Description
	<b>B1</b>	DIN43650 connector
	<b>B2</b>	Cable
	<b>B3</b>	M12 connector
	<b>B4</b>	DIN9.4mm connector
	<b>C2</b>	G ¼ male thread
	<b>C3</b>	G ½ male thread
	<b>G</b>	Gauge
	<b>S</b>	Sealed gauge
	<b>A</b>	Absolute

**Full ordering code:** (example)

**SE-SPT21C2-250-E-B3-C2:** Sier Pressure Transmitter, 4-20mA Loop Powered,  
 0 to 250 Bar Gauge, G1/4 External Port, M12 4 Pin Elec. Connection.

M12 Cable sold separately Part No: **SE-SPT-M12-1.5M** (1.5m cable)

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