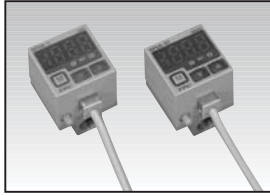


Digital Pressure Sensor Series SPSA

- High accuracy pressure sensor
- Bright LED display
- Multiple pressure sensors
- Various output modes
- Chattering prevention
- Analog output(1~5V)
- Reverse power polarity protected circuit



How to Order

SPS
A
—
V
01
—
P

- 4 Output**
 Blank : NPN Open Collector Output
 P : PNP Open Collector Output
- 5 Port Size**
 Blank : Rc(PT) 1/8
 U : NPT 1/8
- 6 Option**
 Blank : With Bracket(Bracket A, B)
 C : Pannel Mounting Bracket(PSO-01)
 D : Pannel Mounting Bracket
 +Front Protection Cover(PSO-01+ PSO-02)

- 1 Model**
 SPS : Pressure Sensor
- 2 Body Type**
 A : Square(30mm×30mm)

3 Rating Pressure

Type	Range of Rating Pressure
01	0~100kPa(14.5psi)
1	0~1000kPa(145psi)
V01	-101.3~0kPa(-14.7~0psi)
C01	-100.0~100kPa(-14.5~14.5psi)

* Blank : Standard pressure
 V : Negative pressure(Vacuum)
 C : Vacuum, Low pressure

Specifications

Pressure type		Gauge pressure			
		Negative pressure type	Standard pressure type		Vacuum, Low pressure
Model	NPN	SPSA-V01	SPSA-01	SPSA-1	SPSA-C01
	PNP	SPSA-V01P	SPSA-01P	SPSA-1P	SPSA-C01P
Rated pressure range		0.0~101.3kPa(0.0~14.7psi)	0.0~100.0kPa(0.0~14.5psi)	0.0~1,000kPa(0.0~145psi)	-100.0~100kPa(-14.5~14.5psi)
Display pressure range		5.0~101.3kPa (0.72~14.7psi)	-5.0~110.0kPa (-0.72~15.9psi)	-5.0~1,100kPa (-7.25~159.5psi)	-101.3~110kPa (-14.7~15.9psi)
Max. oressyre rabge		2 times of rating pressure		1.5 times of rating pressure	2 times of rating pressure
Applicable fluid		Air, Non-corrosive gas			
Power supply		12~24VDC±10%(Ripple P-P : Max. 10%)			
Current consumption		Max. 50mA			
Control output		· NPN open collector output ⇒Load current : Max. 100mA, Load voltage : Max. 30VDC, Residual voltage : Max. 1V · PNP open collector output ⇒Max. sink current : Max. 100mA, Residual voltage : Max. 2V			
Hysteresis		1 digit(2digit/psi) fixed		2 digit/psi fixed	
Repeat error		±0.2% F · S ±1digit		±0.2% F · S ±2digit	
Response time		Selectable 2.5ms, 5ms, 100ms, 500ms			
Short circuit protection		Built-in			
Analog output		· Output voltage:1V-5VDC±2% F.S. · Zero point:Within 1VDC±2% F.S.		· Resolution:Approx. 1/200 · Linear:Within ±2% F.S.	· Span:Within 4VDC ±2% F.S. · Output impedance:1kΩ
Display method		3 1/2 digit LED 7Segment			
Min. display interval		1 digit(2digit/psi)		2digits	
		kPa, kgf/Cm ² , bar, psi mmHg, mmH ₂ O, inHg	kPa, kgf/Cm ² , bar, psi		kPa, kgf/Cm ² , bar, psi mmHg, mmH ₂ O, inHg
Characteristic of control output and displayed temp		Max. ±1% F.S.		Max. ±2% F.S.	
Analog output temperature characteristic		Max. ±2% F.S. (25℃(77℉) standard)			
Environment	Ambient temperature	-10℃ to ±50℃(14~122℉)(at non-dew status)			
	Storage temperature	-20℃ to ±60℃(-4~140℉)(at non-freezing status)			
	Ambient humidity	35 to 85% RH			
	Storage humidity	35 to 85% RH			
	Vibration	1.5mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z directions for 2 hours			
Material		Front case : PC, Rear case : PC(Insert glas), Pressure port : die-cast(Zn)			
Profection structure		IP40(IEC standard)			
Cable		5P, φ4, Length : 2m(0.2mm2)			
Acquirement standard		CE			
Weight		Approx. 120g(4.23oz)			

※weight : not induding carton. ※F.S.(Full Scate) : Full span ※(*)1) : Output operating, hysteresis adjustable in F-1 mode ※(*)2) ± 1% F · S or less(25℃)