


Product Overview

■ Compact, Dual LCD Display Digital Pressure Sensor [PSQ Series]

Pressure type	Gauge pressure (compound pressure)			
Type	NPN or PNP open collector output type		NPN or PNP open collector output+ analog output or external input type	
Model	PSQ-C01C-Rc1/8	PSQ-C1C-Rc1/8	PSQ-C01CU-Rc1/8	PSQ-C1CU-Rc1/8
Appearances & Dimensions	 <p style="text-align: center;">[W30×H30×L32.7mm]</p>			
Rated pressure range	-100.0 to 100.0kPa	-100 to 1,000kPa	-100.0 to 100.0kPa	-100 to 1,000kPa
Display&Setting pressure range	-101.3 to 110.0kPa	-101 to 1,100kPa	-101.3 to 110.0kPa	-101 to 1,100kPa
Min. display unit	0.1kPa	1kPa	0.1kPa	1kPa
Max. pressure range	2 times of rated pressure	1.5 times of rated pressure	2 times of rated pressure	1.5 times of rated pressure
Applied fluid	Air, Non-corrosive gas			
Power supply	12-24VDC \equiv (ripple P-P: max. 10%)			
Current consumption	Max. 50mA		Max. 50mA (current output: max. 70mA)	
Control output	NPN or PNP open collector output · Load voltage: Max. 30VDC \equiv · Load current: Max. 100mA · Residual voltage: Max. 2VDC \equiv			
	Hysteresis \times 1 Min. display interval			
	Repeat error \pm 0.2% F.S. \pm Min. display interval			
	Response time Select one; 2.5ms, 5ms, 10ms, 25ms, 50ms, 100ms, 250ms, 500ms, 1,000ms, 5,000ms			
	Protection circuit Output short over current protection circuit			
Analog output \times 2	Voltage output	—	<ul style="list-style-type: none"> · Output voltage: 1-5VDC\equiv \pm2.5% F.S. · Linear: Max. \pm1% F.S. · Resolution: 1/2,000 · Output impedance: Approx. 240Ω · Response time: 50ms 	
	Current output	—	<ul style="list-style-type: none"> · Output current: DC4-20mA \pm2.5% F.S. · Linear: Max. \pm1% F.S. · Resolution: 1/2,000 · Output impedance: Approx. 100kΩ · Response time: 50ms 	
External input \times 2 (Auto shift/Remote zero/ Hold)	—	<ul style="list-style-type: none"> · ON voltage: Max. 0.4VDC\equiv · OFF voltage: 5-Vin or open · Resolution: 1/2,000 · Output impedance: Approx. 100kΩ 		
Display digits	Present value (PV) display part, Setting value (SV) display part: 4-digit			
Display method	12-segment LCD method			
Reference	E-5 to 17			

\times 1: In hysteresis output mode, it is variable.

\times 2: Select one between analog output (voltage or current) and external input.

■ Compact, Digital Display Pressure Sensor [PSAN Series]

Pressure type		Gauge pressure (In case of fluid type, negative pressure, compound pressure, 1,000kPa/standard pressure are sealed gauge pressure ^{※4})			
		Negative pressure		Standard pressure	
Model ^{※1}	Voltage output	Connector	PSAN-(L)V01C(P)V-□	PSAN-(L)01C(P)V-□	PSAN-(L)1C(P)V-□
		Cable	—	—	PSAN-B1(P)V-□
	Current output	Connector	PSAN-(L)V01C(P)A-□	PSAN-(L)01C(P)A-□	PSAN-(L)1C(P)A-□
		Cable	—	—	PSAN-BC01(P)A-□
Hold/Auto shift input	Connector	PSAN-(L)V01C(P)H-□	PSAN-(L)01C(P)H-□	PSAN-(L)1C(P)H-□	PSAN-(L)C01C(P)H-□
	Cable	—	—	PSAN-B1(P)H-□	PSAN-BC01(P)H-□
Appearances & Dimensions		<p> Pneumatic type [W30×H30×L30.7mm] Fluid type [W30×H30×L32mm] [W30×H30×L42.3mm] </p>			
Rated pressure range		0.0 to -101.3kPa	0.0 to 100.0kPa	0 to 1,000kPa	-101.3 to 100.0kPa
Display&Setting pressure range		5.0 to -101.3kPa	-5.0 to 110.0kPa	-101.3 to 1,100kPa	-101.3 to 110.0kPa
Min. display unit		0.1kPa	0.1kPa	1kPa	0.1kPa
Max. pressure range		2 times of rated pressure		1.5 times of rated pressure	2 times of rated pressure
Applied fluid		Pneumatic type - Air, Non-corrosive gas Fluid type - Air, Non-corrosive gas and fluid that do not corrode stainless steel 316L			
Power supply		12V-24VDC \pm 10% (ripple P-P: max. 10%)			
Current consumption		Max. 50mA (current output: max. 75mA)			
Control output		NPN or PNP open collector output • Load voltage: Max. 30VDC \pm • Load current: Max. 100mA • Residual voltage - NPN: Max. 1VDC \pm , PNP: Max. 2VDC			
Hysteresis ^{※2}		Min. display interval			
Repeat error		\pm 0.2% F.S. \pm Min. display interval			
Response time		Selectable 2.5ms, 5ms, 100ms, 500ms, 1000ms			
Protection circuit		Output short over current protection circuit			
Analog output ^{※3}	Voltage output	• Output voltage: 1-5VDC \pm 2% F.S. • Linear: Within \pm 1% F.S. • Output impedance: 1k Ω • Zero point: Max. 1VDC \pm 2% F.S. • Span: Max. 4VDC \pm 2% F.S. • Response time: 50ms • Resolution: Automatically changed to 1/1000 or 1/2000 by display unit			
	Current output	• Output current: DC4-20mA \pm 2% F.S. • Linear: Max. \pm 1% F.S. • Zero-point: Max. DC4mA \pm 2% F.S. • Response time: 70ms • Span: Max. DC16mA \pm 2% F.S. • Resolution: Automatically changed to 1/1000 or 1/2000 by display unit			
Display digits		4½ -digit			
Display method		7-segment LED display			
Reference		E-18 to 30			

※1: For '(L)', '(P)', '□' of model name, please refer to '■ Ordering Information'.

※2: In hysteresis output mode, detection difference is variable.

※3: It is allowed to select one analog output type only.

※4: The unit is sealed structure. It is based on atmospheric pressure 101.3kPa.

※F.S.: Rated pressure.

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers


(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software

Product Overview

■ Compact, Digital Display Pressure Sensor [PSA/PSB Series]

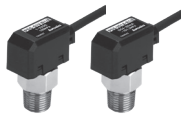
Pressure type		Gauge pressure			
		Negative pressure		Standard pressure	Compound pressure
Model ^{※1}	NPN open collector output	PSA-V01-□ PSB-V01-□ PSB-V01C-□	PSA-01-□ PSB-01-□ PSB-01C-□	PSA-1-□ PSB-1-□ PSB-1C-□	PSA-C01-□ PSB-C01-□ PSB-C01C-□
	PNP open collector output	PSA-V01P-□ PSB-V01P-□ PSB-V01CP-□	PSA-01P-□ PSB-01P-□ PSB-01CP-□	PSA-1P-□ PSB-1P-□ PSB-1CP-□	PSA-C01P-□ PSB-C01P-□ PSB-C01CP-□
Appearances & Dimensions		 <p>CE</p> <p>PSA Series (cable type) [W30×H30×L38.5mm] PSB Series (connector type) [W52×H10×L25.5mm]</p>			
Rated pressure range		0.0 to -101.3kPa	0.0 to 100.0kPa	0.0 to 1,000kPa	-100.0 to 100.0kPa
Display&Setting pressure range		5.0 to -101.3kPa	-5.0 to 110.0kPa	-50 to 1,100kPa	-101.2 to 110.0kPa
Max. pressure range		2 times of rated pressure			1.5 times of rated pressure
Applied fluid		Air, Non-corrosive gas			
Power supply		12-24VDC \pm 10% (ripple P-P: max. 10%)			
Current consumption		Max. 50mA			
Control output		NPN or PNP open collector output • Load voltage: Max. 30VDC \pm • Load current: Max. 100mA • Residual voltage - NPN: Max. 1VDC \pm , PNP: Max. 2VDC			
Hysteresis ^{※2}		1-digit fixed (2-digit for psi unit)			2-digit fixed
Repeat error		\pm 0.2% F.S. \pm 1-digit			\pm 0.2% F.S. \pm 2-digit
Response time		Selectable 2.5ms, 5ms, 100ms, 500ms			
Protection circuit		Output short over current protection circuit			
Analog output		• Output voltage: 1-5VDC \pm \pm 2% F.S. • Zero-point: Within 1VDC \pm \pm 2% F.S. • Span: Within 4VDC \pm \pm 2% F.S. • Linear: Within \pm 2% F.S. • Resolution: Approx. 1/200 • Output impedance: 1k Ω			
Display digits		3½ -digit			
Display method		7-segment LED display			
Reference		E-31 to 45			

※1: '□' is pressure port type. Please refer to 'Ordering Information'.

※2: In hysteresis output mode, detection difference is variable.

※F.S.: Rated pressure.

■ Compact, Non-indicating Pressure Sensor [PSS Series]

Pressure type		Gauge pressure			
		Negative pressure		Standard pressure	Compound pressure
Model	Voltage output	PSS-V01V-R1/8	PSS-01V-R1/8	PSS-1V-R1/8	PSS-C01V-R1/8
	Current output	PSS-V01A-R1/8	PSS-01A-R1/8	PSS-1A-R1/8	PSS-C01A-R1/8
Appearances & Dimensions		 <p>CE</p> <p>[W11.8×H29.3×L24.8mm]</p>			
Rated pressure range		0.0 to -101.3kPa	0.0 to 100.0kPa	0 to 1,000kPa	-101.3 to 100.0kPa
Analog output range		5.0 to -101.3kPa	-5.0 to 110.0kPa	-50 to 1,100kPa	-101.3 to 110.0kPa
Max. pressure range		2 times of rated pressure			1.5 times of rated pressure
Applied fluid		Air, non-corrosive gas			
Power supply		12-24VDC \pm 10% (ripple P-P: max. 10%)			
Current consumption		Voltage output type: Max. 15mA, Current output type: —			
Effect by power supply		Max. \pm 0.3% F.S.			
Protection circuit		Reverse polarity protection circuit			
Analog output	Voltage output	•Output voltage: 1-5VDC \pm \pm 2% F.S.		•Linear: Max. \pm 1% F.S.	•Output impedance: 1k Ω
	Current output	•Output current: DC4-20mA \pm 2% F.S.		•Linear: Max. \pm 1% F.S.	
Reference		E-46 to 51			

※F.S.: Rated pressure.