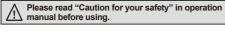
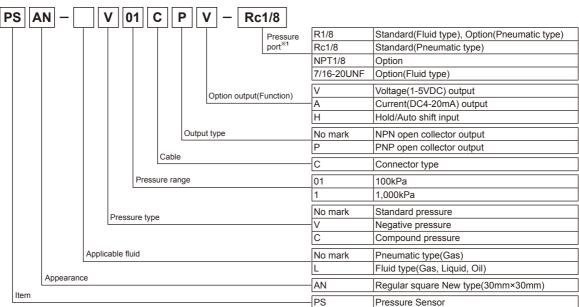
Small size, 1/2,000 resolution connector type digital pressure sensor

Features

- Ideal for a wide range of applications of gas, liquid, and oil. (Inappropriate to corrosion environment for SUS316L)
- 1/2,000 high resolution for indication
- Hold/Auto shift input function : Enables to output stably regardless of changing normal primary pressure and One unit performs two units functions (Only for models with Hold/Auto shift input type)
- 2 independent outputs and N.O./N.C. output selectable
- Forced-output mode embodied for easy operation test and monitoring
- One-touch connector type for easy maintenance
- Analog output (resolution: automatically changes as 1/1,000 or 1/2,000 by display unit, voltage : 1-5VDC, current : DC4-20mA)
- Zero-point adjustment function, peak monitoring function, and chattering prevention function



Ordering information



F

%1: In case of using M5 port, use PSO-Z01(M5 Gender) together.

Pressure and Max. pressure display range

Туре	MPa	kPa	kgf/cm ²	bar	psi	mmHg	inHg	mmH₂O
Negative		0.0 to -101.3	0.000 to -1.034	0.000 to -1.013	0.00 to -14.70	0 to -760	0.0 to -29.9	0.0 to -103.4
pressure	_	(5.0 to -101.3)	(0.051 to -1.034)	(0.050 to -1.013)	(0.74 to -14.70)	(38.0 to -760.0)	(1.50 to -29.90)	(5.1 to -103.4)
	0 to 0.100	0.0 to 100.0	0.000 to 1.020	0.000 to 1.000	0.00 to 14.50			
Standard	(-0.005 to 0.110)	(-5.0 to 110.0)	(-0.051 to 1.122)	(-0.050 to 1.100)	(-0.72 to 15.96)			
pressure	0 to 1.000	0 to 1000	0.00 to 10.20	0.00 to 10.00	0.0 to 145.0			
	(-0.050 to 1.100)	(-50 to 1100)	(-0.51 to 11.22)	(-0.50 to 11.00)	(-7.2 to 159.6)			_
Compound		-101.3 to 100.0	-1.034 to 1.020	-1.013 to 1.000	-14.70 to 14.50	-760 to 750	-29.9 to 29.5	-103.4 to 102.0
pressure	_	(-101.3 to 110.0)	(-1.034 to 1.122)	(-1.013 to 1.100)	(-14.70 to 15.96)	(-760.0 to 824.0)	(-29.88 to 32.58)	(-103.4 to 112.2)

※() is Max. pressure display range.

% For using a unit mmH₂O, multiply display value by 100.



Pneumatic type



(A)

Pressure conversion chart

										_ Pnoto
from	^o Pa	kPa	MPa	kgf/cm ²	mmHg	mmH ₂ O	psi	bar	inHg	electric sensor
1Pa	1	0.001	0.000001000	0.000010197	0.007501	0.101972	0.000145038	0.000010000	0.0002953	
1kPa	1000.000	1	0.001000	0.010197	7.500616	101.9716	0.145038	0.010000	0.2953	(B) Fiber
1MPa	1000000	1000	1	10.197162	7500.61683	101971.553	145.038243	10	295.299875	optic sensor
1kgf/cm ²	98066.54	98.066543	0.09806	1	735.5595	10000.20	14.22334	0.980665	28.95878	Selisoi
1mmHg	133.322368	0.133322	0.000133	0.001359	1	13.5954	0.019336	0.001333	0.039370	(C)
1mmH ₂ O	9.80665	0.00980	-	0.000099	0.0735578	1	0.00142	0.000098	0.002895	Door/Area
1psi	6894.757	6.89757	0.00689	0.070307	51.71630	703.07	1	0.068947	2.036003	sensor
1bar	100000.0	100.0000	0.100000	1.019689	750.062	10196.89	14.50339	1	29.52998	
1inHg	3386.417	3.388418	0.003386	0.034532	25.40022	345.31849	0.491158	0.033863	1	(D)
Ex) For calc	ulating 760mm	nHa as kPa · /	According to at	nove chart 1m	mHa is 0 1333	222kPa theref	ore 760mmHa	will bo		Proximity

Ex) For calculating 760mmHg as kPa : According to above chart, 1mmHg is 0.133322kPa, therefore 760mmHg will be 760×0.133322kPa=101.32472kPa.

Specifications

		Gauge pres	SIIRO							sensor	
Pressure type		Negative pressure Standard pressure Compound pressure								(F)	
-	Voltage(1-5VDC) output	PSAN-(L)V0		PSAN-(L)0		PSAN-(L)	1C(P)V- 🗌		C01C(P)V-	Rotary	
<u>~</u>	Current(DC4-20mA) output			PSAN-(L)0	. ,	```	1C(P)A-		C01C(P)A-	encoder	
õ			. ,		. ,	``´	. ,	`` ´		-	
	Hold/Auto shift input	PSAN-(L)V0	. ,	PSAN-(L)0	. ,		1C(P)H-		C01C(P)H-	(G) Connector	
	ed pressure range	0.0 to -101.3		0.0 to 100.		0 to 1,000			a to 100.0kPa	Socket	
	play pressure range	5.0 to -101.3	kPa	-5.0 to 110.	.0kPa	-50 to 1,10	JOKPa		a to 110.0kPa		
	.display unit	0.1kPa	4	0.1kPa		1kPa		0.1kPa		(H) Temp.	
	k. pressure range		ted pressure		rated pressure	e 1.5 times	of rated press	ure 2 times of	rated pressure	controller	
	blied vapor		type - Air, No - Air, Non-cor			ill not corrodo	01102461			-	
	olied fluid ver supply		±10%(ripple F				505316L			(I) SSR/	
	rent consumption		Analog Currer							Power controller	
			open collecto							-	
	ntrol output				urrent: Max. 1	00mA • Resi	dual voltage -	NPN: Max. 1\	V, PNP: Max. 2V	(J)	
	Hysteresis ^{**2}	Min. display								Counter	
	Repeat error		Min. display r								
	Response time		.5ms, 5ms, 10	00ms, 500ms	s, 1000ms					(K)	
	Short circuit protection	Built-in								Timer	
		 Output volt 	Output voltage: 1-5VDC ±2% F.S. • Linear: Within ±1% F.S. • Output impedance: 1kΩ								
Ana	alog Voltage output	 Zero point: 	Zero point: Max. 1VDC ±2% F.S. • Span: Max. 4VDC ±2% F.S. • Response time: 50ms Resolution: Automatically changed to 1/1000 or 1/2000 by display unit								
out	out		Resolution: Automatically changed to 1/1000 or 1/2000 by display unit Output current: DC4-20mA ±2% • Linear: Max. ±1% F.S. • Zero-point: Max. DC4mA ±2% F.S.								
Ж3	Current output		Span: Max DC16mA +2% FS • Response time 70ms								
			• Resolution: Automatically changed to 1/1000 or 1/2000 by display unit								
Dis	play digit	4 ¹ / ₂ digit	ratomatioan	y onlanged to	1/1000 01 1/1		ay and			(M) Tacho/ Speed/ Pul	
	play method	7 segment L	ED Display							meter	
	Resolution			1000	0000	1000	0000	4000	0000	(N)	
	Pressure unit	1000	2000	1000	2000	1000	2000	1000	2000	Display	
interval	MPa	I	—	0.001		0.001				unit	
en	kPa	0.1	—	0.1	_	1			0.1		
int	kgf/cm ²	0.001	1	0.001		0.01			0.001	(O) Sensor	
Display	bar	0.001		0.001		0.01			0.001	controller	
sp	psi		0.01		0.01		0.1		0.02	(D)	
	mmHq		0.4		0.01				0.8	(P) Switching	
Min.	inHg		0.02						0.03	mode powe supply	
	mmH₂O	0.1	0.02					<u> </u>	0.1	┥┝───	
	play accuracy		: Max. ±0.5%	ES -10 to 0	°C · Max +1º	6 E S			0.1	(Q) Stepper	
	lectric strength		60Hz for 1 m		0. Max. 11	01.0.				motor& Driver&Cont	
	ulation resistance		at 500VDC me							Diveracon	
	ration				55Hz(for 1 m	nin) in each o	f X, Y, Z direct	ion for 2 hour	S	(R) Graphic/	
							, .,		-	Logic	
me		10 to 50°C, storage : -20 to 60°C P 30 to 80%RH, storage :30 to 80%RH P								panel	
	tection	IP40(IEC specification)								(S)	
1 10				case: PC R	aar case: PC	Pressure nor	t: Nickel Plate	d Brass		Field network	
Ma	erial		- Front case:					u Diass		device	
			able (ø4mm, s			Sure port. OO	00102			-	
Cal	ble					· 40 Inculate	or out diamete	r: ø1mm)		(T) Software	
				5.00mm, Nu			out ulamele			Goitware	
Δn											
	oroval ight ^{≋₅}	CE		405-(4			oprox. 173q(A				

%1: For '(L)', '(P)', '□' of model name, refer to '■ Ordering information'.

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

 $\ensuremath{\ll}3$: It is allowed to select one analog output type only.

%4: Resolution(1000/2000) of min. Display interval is automatically selected depend on pressure units.

 \times 5:This weight is with packaging and the weight in parentheses is only unit weight.

※F.S. : Rated pressure.

%There may be ±1digit error in hysteresis by pressure unit calculation error.

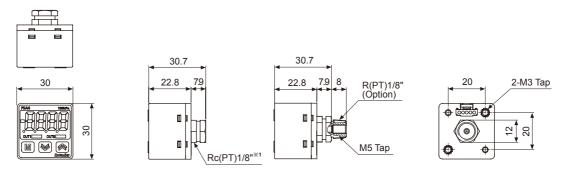
XEnvironment resistance is rated at no freezing or condensation.



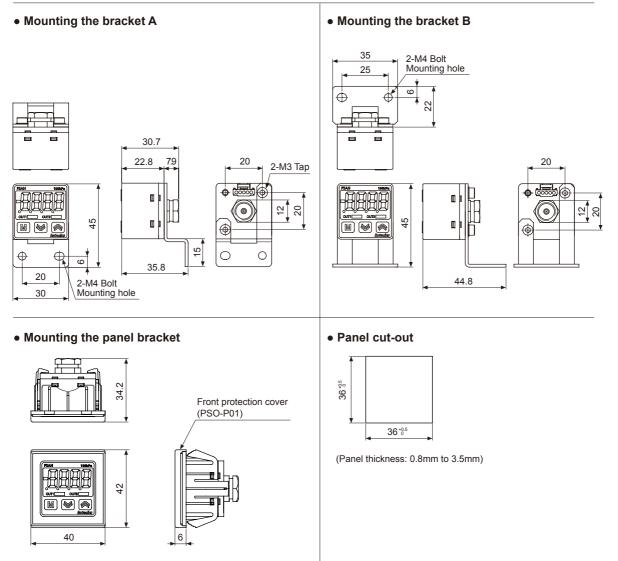
Dimensions

O Pneumatic type

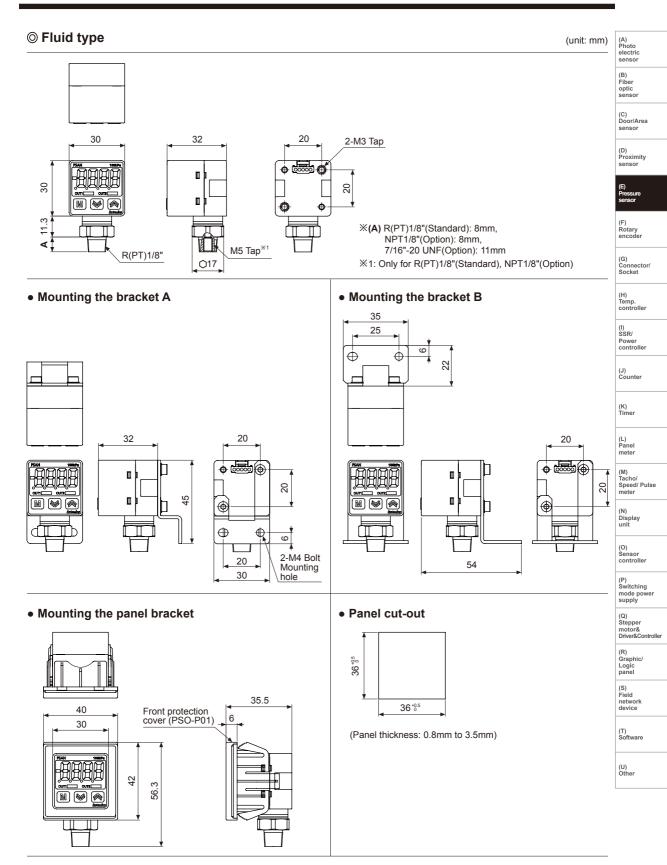
(unit: mm)

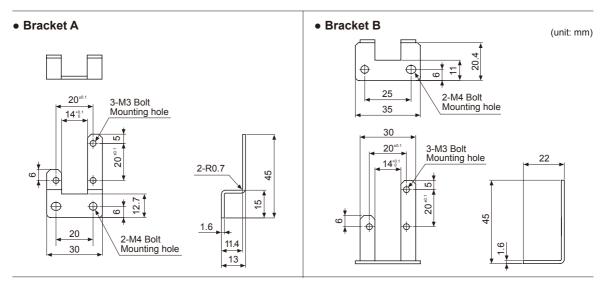


%1: Rc(PT)1/8"(Standard), NPT1/8"(Option) Depth 8mm

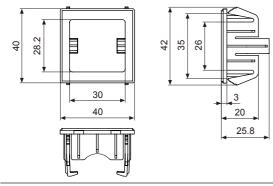


Pressure Sensor





Panel bracket(PSO-B02)



Front panel identification and function



1. Range of rated pressure

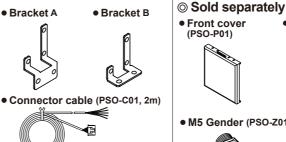
: It is possible to change the pressure unit in Pressure sensor.

- Use different unit as label for your application.
- 2. 4digit LED display(Red)
- Used to indicate measured pressure value, setting value and error message.
- 3. Output1 indicator(Red): Output 1 is ON, LED will be ON.
- 4. Output2 indicator(Green): Output 2 is ON, LED will be ON.
- 5. M key: Used to enter into Preset/Parameter setting mode and to save Setting mode.
- 6. , key: Used to set parameter and preset, peak value check mode, function setting or output operation mode.
 - (♥) + (♠) key : Used for zero point adjustment function by pressing (♥) + (♠) keys over 1 sec simultaneously in RUN mode.

Accessory

Pressure unit label

						í í
±100kPa	-101.3kPa	2kPa	10kPa	100kPa	1MPa	
±1.020kgf/cm*	-1.034kgf/cm*	2.040kgf/cm*	10.20kgf/cm*	1.020kgf/cm	10.20kgf/cm*	0
±14.50psi	-14.70psi	29.00psi	145.0psi	14.50psi	145.0psi	
±1.000bar	-1.013bar	2.000bar	10.00bar	1.000bar	10.00bar	
±750mmHg	-760mmHg					
±29.5inHg	-29.9inHg			/100	/100	
±102.0mmH ₂ O	-103.4mmH ₂ 0	2.040mmH ₂ O	10.20mmH ₂ O	X100	X100	Connector ca
	D					



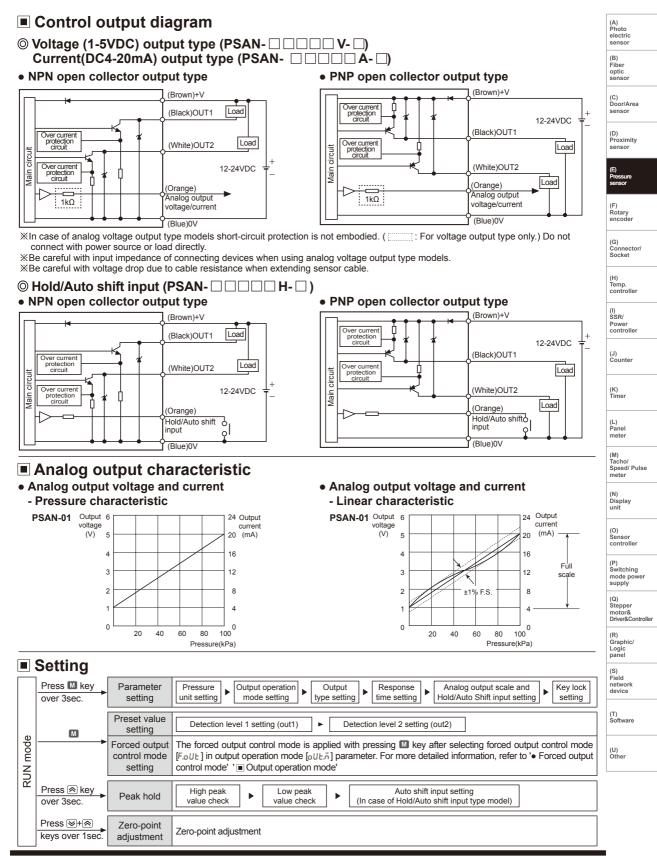


M5 Gender (PSO-Z01)

Ó

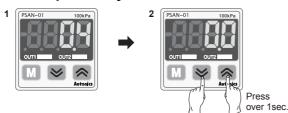
(PSO-P01)

Autonics



Autonics

Zero point adjustment



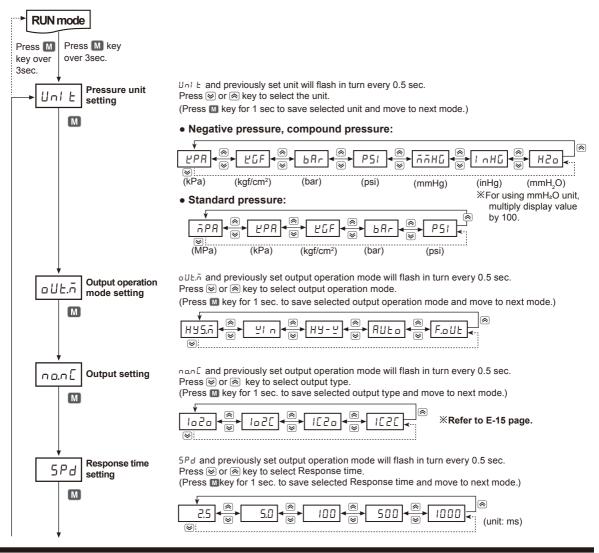
- 1. In state of atmospheric pressure during RUN mode, press
 key and
 key at the same time for over 1sec.
- When the zero-point adjustment is completed, it will display III and return to RUN mode automatically.
 Please execute zero-point adjustment regularly.



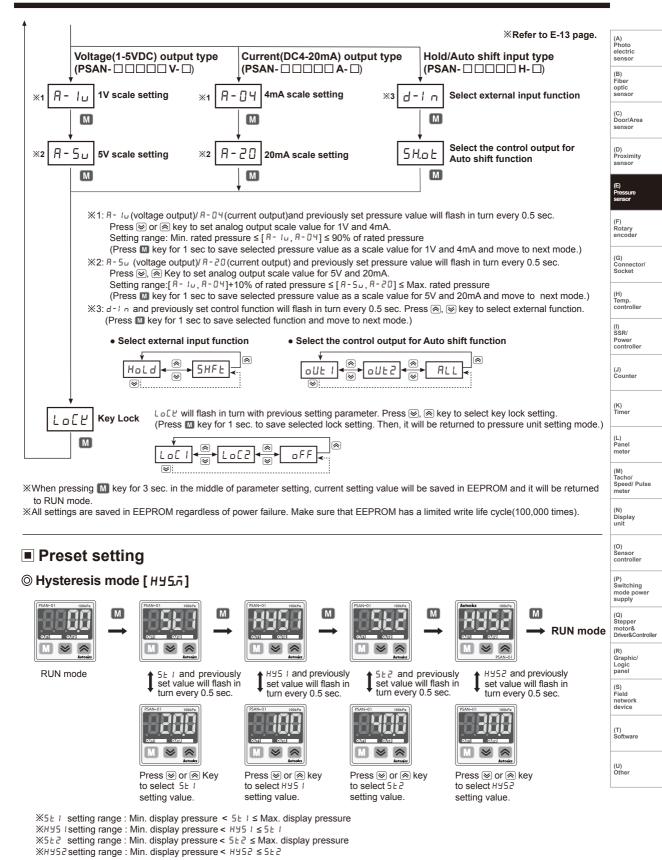
If executing zero point adjustment when external pressure has been applied, *Err I* will flash. Please execute zero-point adjustment again in state of atmospheric pressure without external pressure.

Parameter setting

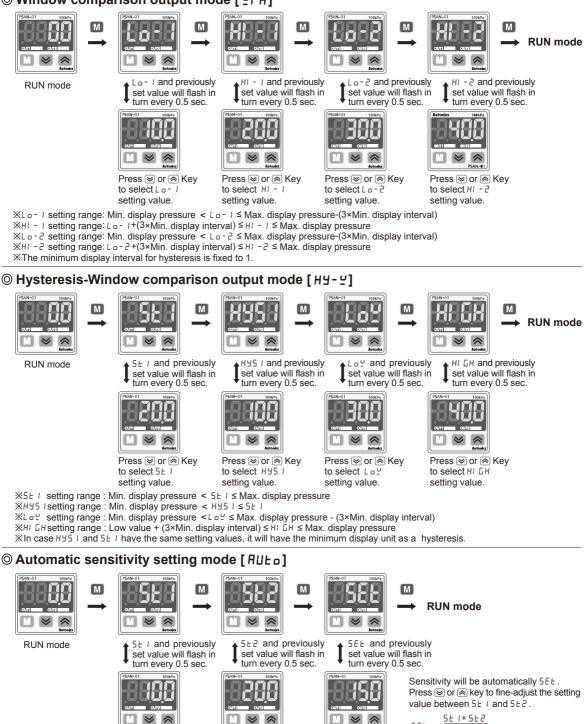
- 1. It is able to set pressure unit, display resolution, output operation mode, output type, Response time, analog output scale, Hold/Auto shift and key lock setting in parameter setting mode.
- 2. If the key lock is set (lock1 or lock2), unlock the key lock before setting parameters. (Refer to Key Lock setting below.)



Pressure Sensor



© Window comparison output mode [⊻/ ¬]



Press 등 or to select 5 ⊢ / setting value.

essure - 1% of r splay pressure

Press 🗵 or 🔿 Key

to select 5EE setting value.

2

5EE =

%5E / setting range : Min. display pressure < 5E / \le Max. display pressure - 1% of rated pressure

Press 🔊 or 🗟 Key

to select 5E2

setting value.

3522 setting range : 521 + 1% of rated pressure < $522 \le Max$. display pressure

XIf certain detection level difference is not ensured, or setting conditions are not met, Err3 message will flash three times and returned to 5E2 setting mode. Check all setting conditions and set proper setting values.

Pressure Sensor

(A) Photo electric senso (B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity

(F) Rotary encode

(G) Connector/ Socket

(H) Temp. controlle

(I) SSR/

Power controlle

(J) Counter

(K) Timer

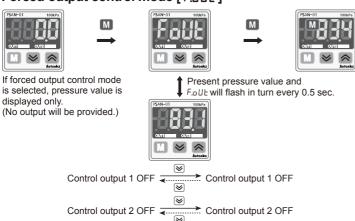
(L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

© Forced output control mode [F.□UL]

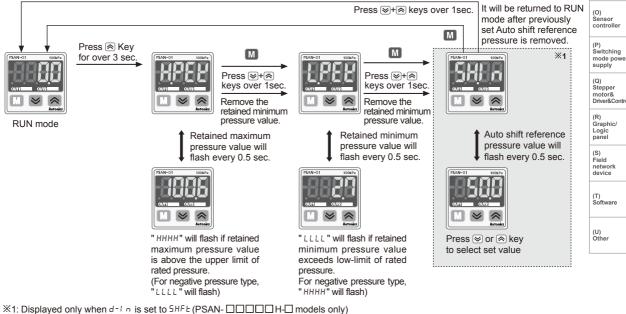




- XIf there is no additional key operation within 60 sec while setting, it is returned to Run mode (Except for force output mode). Previously set values are remained.
- XIn case of changing output operation mode, no preset values will be initialized. Instead, previous output operation settings will become the preset values.
- When using the forced output function, Hold/Auto shift function is not available to use in Hold/Auto shift model
- When changing pressure display unit, resolution, and Hold Auto shift input function, preset values will be initialized as shown the next table. (When changing pressure display unit, preset value will be automatically switched to changed pressure unit.)

 Factor 	• Factory default (unit: kPa							
Output mode	Negative pressure 0.0 to -101.3	Standard pressure 0.0 to 100.0	Standard pressure 0 to 1,000	Compound pressure -101.3 to 100.0				
H 4 5 .ñ	5E 1:-50.0	5E 1:50.0	5E 1:500	5E 1:50.0				
	H95 1:0.0	H95 1:0.0	H95 1:0	H95 1:-50.0				
	5E2:-50.0	5E2:50.0	5E2:500	SE2:50.0				
	H952:0.0	H952:0.0	H952:0	H952:-50.0				
<u>Y</u> In	L = - 1:0.0	Lo-1:0.0	Lo-1:0	Lo-1:-50.0				
	HI - 1:-50.0	HI-1:50.0	HI-1:500	HI - 1:50.0				
	L = - 2:0.0	Lo-2:0.0	Lo-2:0	Lo-2:-50.0				
	HI - 2:-50.0	HI-2:50.0	HI-2:500	HI -2:50.0				
ня- л	5E 1:-50.0	5E 1:50.0	5E 1:500	5E 1:50.0				
	H95 1:0.0	HY5 1:0.0	H95 1:0	H951:-50.0				
	Log:0.0	Loy:0.0	Log:500	Lag:-50.0				
	H1 GH:-50.0	HIGH:50.0	H1GH:0	HIGH:50.0				
AUE o	5E 1:0.0	5E 1:0.0	5E 1:0	5E 1:-50.0				
	5E2:-50.0	5E2:50.0	5E2:500	5E2:50.0				
	5EE:-25.0	5EE:25.0	5EE:250	5EE:0.0				

High peak/Low peak function and Auto shift reference pressure check/change



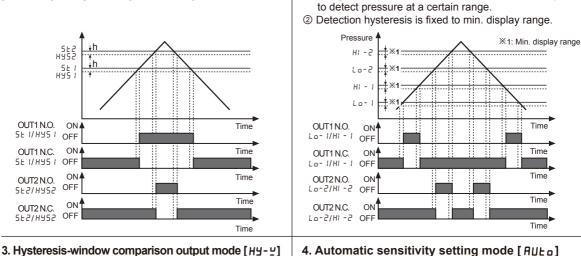
XIf there is no Auto shift input, "0" will be displayed.(Refer to E-15 page for more details.)



Output operation mode



It is able to set certain value for pressure detection level [5E1, 5E2] and hysteresis [H951, H952].



2. Window comparison output mode [un]

1 It is able to set the range for high [HI - I, HI - 2], low [Lo- I]

① This function is to set pressure detection level to the

proper position automatically. It is set by applied

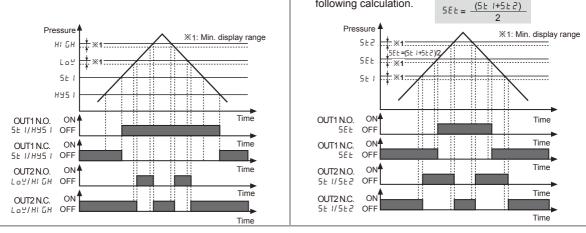
③ The pressure detection level[5Eb] is shown in the

pressure from two positions [5E 1, 5E2]. ② Detection hysteresis is fixed to min. display range.

following calculation.

Lo-21 limit of pressure detection level when it is required

- ① It is available to set hysteresis mode and window comparison output mode when both hysteresis mode $[5 \vdash 1, 5 \vdash 2]$ and window comparison output mode $[\lfloor 0 \lor]$, HI GH] are necessary.
- ② Detection hysteresis is fixed to min. display range.

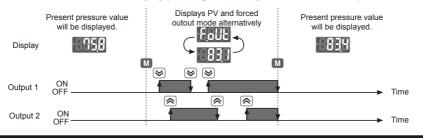


5. Forced output control mode [F.oUL]

- ① Used to display pressure with forcibly holding comparing output OFF regardless of setting value.
- 2 In parameter setting, if output operation mode setting 'a UE.n' is changed to 'F.a UE', forced output control mode is operated.

Autonics

③ Output 1, 2 can be ON/OFF manually by pressing ⊌, ⊗ key while the forced output control mode is applied.



Functions

O Pressure unit change

PSAN-V01C(P) and PSAN-C01C(P) has 7 kinds of pressure unit, PSAN-01C(P) and PSAN-1C(P) has 5 kinds of pressure unit. Please select the proper unit for application.

- PSAN-V01C(P), PSAN-C01C(P)
- : kPa, kgf/cm², bar, psi, mmHg, inHg, mmH₂O

• PSAN-01C(P), PSAN-1C(P) : MPa, kPa, kgf/cm², bar, psi %When using mmH₂O unit, multiply display value by 100.

Output mode change

There are 5 kinds of control output mode in order to realize the various pressure detection.

• Hysteresis mode [HIJ5.ā]

When needed to change hysteresis for detecting pressure.

• Window comparison output mode ["In]

When needed to detect pressure in certain area.

• Hysteresis - Window comparison output mode [HJ-] When both hysteresis mode and window comparison output mode are required.

• Automatic sensitivity setting mode [AULo]

When needed to set detection sensitivity automatically at proper position.

Forced output control mode [F.oUL]

When needed to display pressure with remaining comparison output OFF regardless of setting value.

◎ Control output change

Type of control output for Out1 and Out2 can be able to set Normally Open or Normally Closed.

Note that Normally Open and Normally Closed provide opposite output.

g value
,

Response time change (chattering prevention)

It can prevent chattering of control output by changing Response time. It is able to set 5 kinds of Response time (2.5ms, 5ms, 100ms, 500ms, 1000ms) and if the Response time is getting longer, the detection will be more stable by increasing the number.

◎ Analog output scale setting

Analog voltage output scale setting

The scale function for analog output voltage(1-5VDC) is not fixed to the rated pressure range. It can be changed for User's application. Analog output voltage range will be fixed to 1-5VDC within the pressure range from pressure point of 1VDC output [$R - l_u$] to pressure point of 5VDC output [$R - s_u$].

Analog current output scale setting

The scale for analog output Current (DC4-20mA) is not fixed to the rated pressure range. It can be changed for User's application. Analog output voltage will be fixed to 4-20mA within the rated pressure range from pressure point of 4mA output [R - D4] to pressure point of 20mA output [R - 2D].

O Hold/Auto shift input setting

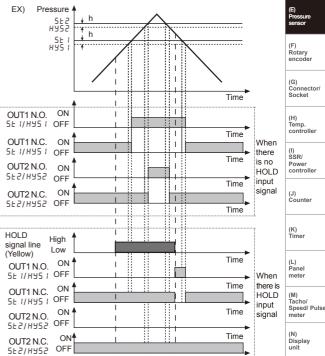
• Hold

A function to hold present pressure value and control output at the time of hold signal input.

Present pressure value and Hold message will flash in turn every 0.5 sec. while Hold function is set. Make sure that Hold function is not able to execute while forced output mode is executed.

Control output timing chart

When Hold signal is applied in Hysteresis mode, refer to '
Control output diagram' of E-9 page.



※[H_aL_d] and present pressure value will flash in turn every 0.5 sec. while Hold signal is applied.



Auto shift

A function to use the measured pressure at the moment of auto shift input as a reference pressure in order to correct the set point values of control output when initial pressure changes.

※Reference pressure is fixed to atmospheric pressure (0.0kPa) when Auto shift function is not used.

*5HJ o (Auto shift compensation value) will be reset to 0 when changing control output or preset values.

- ** Auto shift function will not be executed if "HHHH" or "LLLL" error occurs or if forced output mode is set.
- $5H_{\Box}E$: Reference pressure change through setting.
- DUE 1: Changed reference will be applied to control output 1 only.
- DUE 2: Changed reference will be applied to control output 2 only.
- *RLL* : Changed reference will be applied to both control output 1 and control output 2.

(B) Fiber optic sensor
(C) Door/Area sensor

(D) Proximity

(O) Sensor controller

(P) Switching

mode powe supply

(Q) Stepper

motor& Driver&Co

(R) Graphic/

Logic panel

(S) Field network device

(T) Software

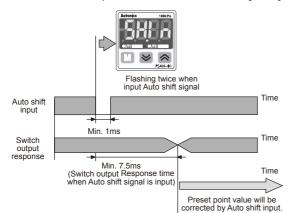
(U) Other

(A) Photo electric

When Auto shift is used

When Auto shift input signal remains at low level more than 1ms, the measured pressure at this point will be saved as a reference value to make correct judgment regardless of pressure changes. Corrected preset pressure value will be applied after 7.5ms.

Measured reference pressure value will be saved in $[5H_{in}]$.



When Auto shift function is used, the possible set pressure range will be wider than rated set pressure range.

*The possible set pressure range for Auto shift type models.

Pressure type	Set pressure range	Possible set pressure range for Auto shift type models
Vacuum pressure	-101.3kPa to 5.0kPa	-101.3kPa to 101.3kPa
Vacuum	-5.0kPa to 110.0kPa	-110.0kPa to 110.0kPa
pressure	-50.0kPa to 1100kPa	-1100kPa to 1100kPa
Compound pressure	-101.3kPa to 110.0kPa	-101.3kPa to 110.0kPa

If the set point value corrected by auto shift input exceeds set pressure range, an error message will flash three times and corrected value is not saved.

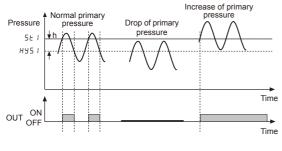
 \rightarrow [- HH-] displayed when the set point value corrected by Auto shift input is above the upper limit of set pressure range.

 \rightarrow [-LL-] displayed when the set point value corrected by Auto shift input is below the lower limit of set pressure range.

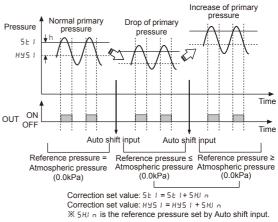
*The correction value will be saved in EEPROM.

Example of Auto shift

< When Auto shift is not used >



< When Auto shift is used >



O Key lock

The key lock function prevents key operations so that conditions set in each mode.

- L_D [/: All keys are locked; therefore it is not available to change parameter settings, preset value, zero adjustment, High/Low peak check, and 5 H/ n data initialization. (Lock setting change is available)
- LoC2: Partially locked status; therefore it is not available to change parameter settings only(Lock setting change is available). Other settings are still available.
- DFF: All of the setting is available, all keys are unlocked. to set detection sensitivity automatically at proper position.

O Zero-point adjustment

The key lock function prevents key operations so that conditions set in each mode.

The zero-point adjustment function forcibly sets the pressure value to "zero" when the pressure port is opened to atmospheric pressure. When the zero adjustment is applied, analog output [Voltage or Current] is changed by this function.

(Press 😒 + 🙈 keys over 1 sec. in RUN mode.)

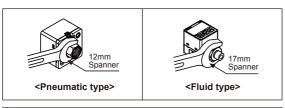
O High Peak / Low Peak Hold

This function is to diagnosis malfunction of the system caused by parasitic pressure or to check through memorizing the max./min. pressure occurred from the system.

Error display	Description	Troubleshooting
Errl	When external pressure is input while adjusting zero point	Try again after removing external pressure
Err2	When overload is applied on control output	Remove overload
ErrB	When setting condition is not met in Auto sensitivity setting mode	Check setting conditions and set proper setting values
LLLL	When applied pressure exceeds Low-limit of display pressure range	Apply pressure within
нннн	When applied pressure exceeds High-limit of display pressure range	display pressure range
- H H - - L L _ - H o _	Auto shift correction error	Set the corrected setting value within setting pressure range.

Installation

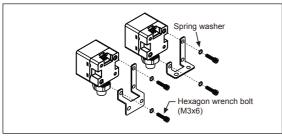
- 1. Pressure port is divided as standard and option specification. Therefore, be sure that to use commercially available one touch fitting.
 - Standard Pneumatic type: Rc(PT)1/8" - Fluid type: R(PT)1/8"
 - Option Pneumatic type: NPT1/8", R(PT)1/8" - Fluid type: NPT1/8", 7/16"-20 UNF
- Please connect it by using spanner(pneumatic type 12mm, fluid type 17mm) at the metal part in order not to overload on the body when connecting one touch fitting.



∆Caution

The tightening torque of one touch fitting should be max.100kgf·cm. If not, it may cause mechanical problem.

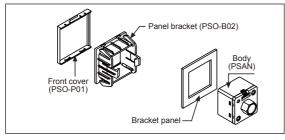
- Two different brackets are provided for PSAN model. Select proper one with considering your application environments.
- At first, please unscrew hexagon wrench bolt and assemble the bracket on this unit by fixing hexagon the wrench bolt.



ACaution

In this case, tightening torque of hexagon wrench should be max. 30kgf·cm. If not, it may cause mechanical problem.

5. Panel bracket(PSO-B02) and front cover (PSO-P01) are sold separately. Please see the pictures for installation.

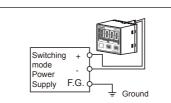


Proper usage

∆Caution

PSAN Series is for sensing of non corrosive gas. Do not use this product at corrosive gas or flammable gas, etc.

- Please using this unit within the range of specification, if applying pressure is larger than specification, it may not be working properly due to damage.
- · After supplying power, it takes 3 sec. to work.
- When using switching mode power supply, frame ground (F.G.) terminal of power supply should be grounded.



- It may cause malfunction by noise, when wiring with power line or high voltage line.
- Do not insert any sharp or pointed object into pressure port. It may cause mechanical problem due to sensor damage.
- Do not use this unit with flammable gas, because this is not an explosion proof structure.
- Be sure that this unit should not be contacted directly with water, oil, thinner, etc.



· Wiring must be done with power off.

(N) Display unit (O) Sensor controller (P) Switching

(M) Tacho/ Speed/ Pulse meter

(A) Photo electric

senso

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity

(E)

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controlle

(I) SSR/

> Power controlle

(J) Counter

(K) Timer

(L) Panel meter

Switching mode power supply

(Q) Stepper motor& Driver&Contro

(R) Graphic/ Logic panel

(S) Field network device

(T) Software

(U) Other