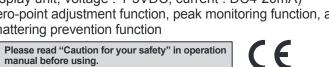
Small size, 1/2,000 resolution connector type digital pressure sensor

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



6



Pneumatic type



	mom	ιαιιοι			
PS AN -	V 0	1 C	Ρ	V	_

Ordering information

PS	AN	-		V	0	1	C	P	V	-	R	:1/8		
Τ''				Τ			Τ	\square	' 			Pressure	R1/8	Standard(Fluid type), Option(Pneumatic type)
												port ^{%1}	Rc1/8	Standard(Pneumatic type)
													NPT1/8	Option
													7/16-20UNF	Option(Fluid type)
										Intion	output	(Eunction)	V	Voltage(1-5VDC) output
									Ľ	Option output(Func		(Function)	A	Current(DC4-20mA) output
													Н	Hold/Auto shift input
								0	utput 1	ype			No mark	NPN open collector output
								—					Р	PNP open collector output
							Ca	ble					-C	Connector type
						Pres	sure	range					01	100kPa
													1	1,000kPa
					ressu	uro tu	20						No mark	Standard pressure
				F	16550	ile ty	he						- V	Negative pressure
													С	Compound pressure
			Ap	plicab	ole flui	id							No mark	Pneumatic type(Gas)
			-										L	Fluid type(Gas, Liquid, Oil)
		peara	nce										AN	Regular square New type(30mm×30mm)
Item	1												-PS	Pressure Sensor

%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				0.000 to -1.013				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)
					0.00 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 (-0.050 to 1.100)			0.00 to 10.00 (-0.50 to 11.00)	0.0 to 145.0 (-7.2 to 159.6)			_
Compound pressure				-1.013 to 1.000 (-1.013 to 1.100)		-760 to 750 (-760.0 to 824.0)	-29.9 to 29.5 (-29.88 to 32.58)	-103.4 to 102.0 (-103.4 to 112.2)

※() is Max. pressure display range.

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

(A)

Pressure conversion chart

										Photo
from	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	(D)
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	sensor
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) Proximity
							sensor			

760×0.133322kPa=101.32472kPa.

Specifications

Pressure	e tvne	Gauge pres								
	type	Negative pr	essure	Standard	pressure			Compour	nd pressure	(F) Rot
	ge(1-5VDC) output	PSAN-(L)V)1C(P)V-□	PSAN-(L)	01C(P)V- 🗌	PSAN-(L)	1C(P)V- 🗌	PSAN-(L)	C01C(P)V-	enc
평 Curre	ent(DC4-20mA) output	PSAN-(L)V)1C(P)A- 🗌	PSAN-(L)	01C(P)A- 🗌	PSAN-(L)	1C(P)A-	PSAN-(L)	C01C(P)A-]
	/Auto shift input	PSAN-(L)V)1C(P)H- 🗌	PSAN-(L)	01C(P)H- 🗌	PSAN-(L)	1C(P)H-	PSAN-(L)	C01C(P)H-	(G) Cor
	essure range	,	0.0 to -101.3kPa 0.0 to 100.0kPa 0 to 1,000kPa -101.3kPa to 100.0kPa							Cor Soc
	pressure range	5.0 to -101.3		-5.0 to 110		-50 to 1,1			a to 110.0kPa	1 🖵
Min.displ		0.1kPa		0.1kPa		1kPa		0.1kPa		1 _(H)
	essure range		ted pressure		rated pressur	e 1.5 times	of rated press		rated pressure	(H) Tem con
Applied \		 Pneumation 	type - Air, N	on-corrosive	gas					
Applied f	fluid	 Fluid type 	- Air, Non-cor	rosive gas a	ind fluid that v	vill not corrode	e SUS316L			(I) SSF
Power su	upply		±10%(ripple I							SSI Pov
Current o	consumption	Max. 50mA(Analog Curre	nt Output typ	be Max 75mA)				con
Control c			open collecto ge: Max. 30VI		urrent: Max. 1	00mA • Resi	dual voltage -	NPN: Max. 1	/, PNP: Max. 2V	(L)
Hyste	eresis ^{**2}	Min. display	range							Cou
Repe	eat error	±0.2%F.S. ±	Min. display	range						1
Resp	oonse time	Selectable 2	.5ms, 5ms, 1	00ms, 500m	s, 1000ms					(К)
Short	t circuit protection	Built-in								Tim
nalog	Voltage output	 Zero point: 	Max. 1VDC ±	±2% F.S. •	Linear: Withir Span: Max. 4 0 1/1000 or 1/2	VDC ±2% F.S	 Response 	pedance: 1kΩ time: 50ms	1	(L) Par
utput							ro-point: Max.	$DC4mA \pm 2\%$	E 9	me
3	Current output				Response time		io-point. Max.	DC4IIIA ±2 /0	1.5.	
					o 1/1000 or 1/2		av unit			(M) Tac
Display o	digit	4 ¹ / ₂ digit		<u> </u>						Sp
Display r		7 segment L	ED Display							me
	Resolution	1000	2000	1000	2000	1000	2000	1000	2000	(N) Dis
		i	1	0.001	1	0.001				uni
MPa kPa kaf/o		0.1	1 <u> </u>	0.1		1			0.1	
	m ²	0.001		0.001		0.01			0.001	(O) Ser
bar		0.001	-	0.001		0.01			0.001	cor
bar bar psi		0.001	0.01	0.001	0.01	0.01	0.1		0.001	
	la		0.4		0.01		0.1		0.8	(P) Swi
inHg	0	<u> </u>	0.02						0.03	mo sup
≥ mmH		0.1	0.02				\rightarrow	> <u> </u>	0.03	┥┝──
			· Max ±0.5%		0°C : Max. ±10				U. I	(Q) Ste
	accuracy c strength)/60Hz for 1 m		$0.0.1$ iviax. ± 1	70 Г.З.				- mo
	n resistance		at 500VDC m							Driv
/ibration					55Uz(for 1 n		of X, Y, Z direct	ion for 2 hour		(R)
	Ambient temperature	· · · ·				init.) in each c	$n \Lambda, 1, 2$ unec		5	Gra
	I									pa
nent	Ambient humidity	30 to 80%RH, storage :30 to 80%RH							(S)	
rotectio	n	IP40(IEC specification)						Fie		
laterial			Pneumatic type - Front case: PC, Rear case: PC, Pressure port: Nickel Plated Brass Fluid type - Front case: PC, Rear case: PA6, Pressure port: SUS316L							net dev
Cable		Connector c	able (ø4, 5-wi	ire, Length: 2	2m)] (m
	-		ore diameter	: 0.08mm, N	umber of core	s : 40, Insulat	or out diamete	er: ø1mm)		(T) Sof
	I	CE	£							
Approval Veight [×]										

X2: In hysteresis output mode, detection difference is variable.

X3: It is allowed to select one analog output type only.

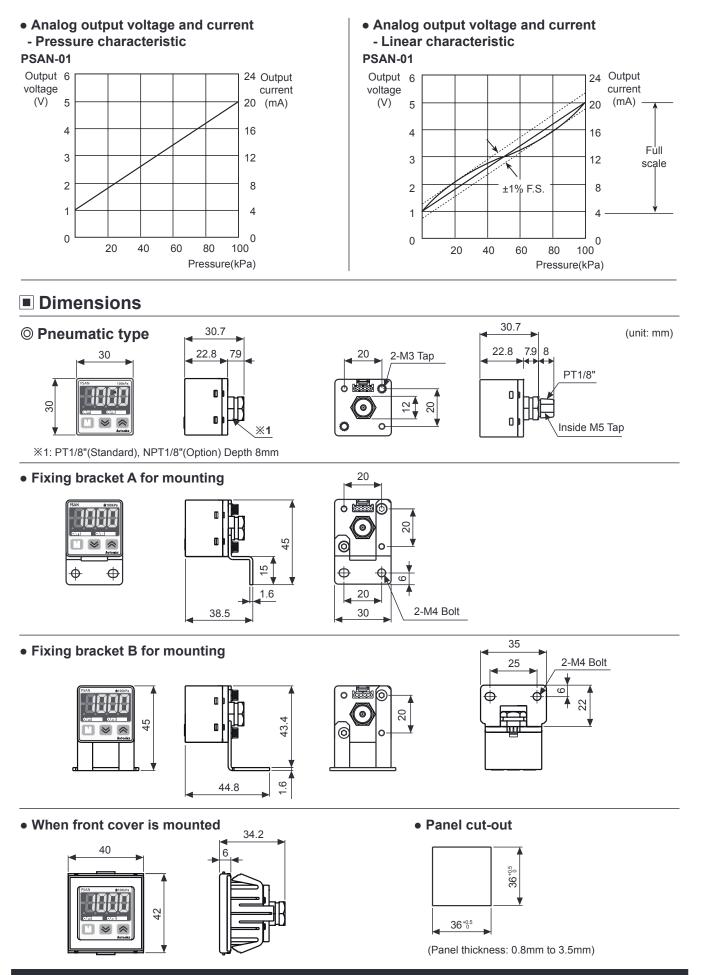
%4: Resolution(1000/2000) of min. Display interval is automatically selected depend on pressure units.

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

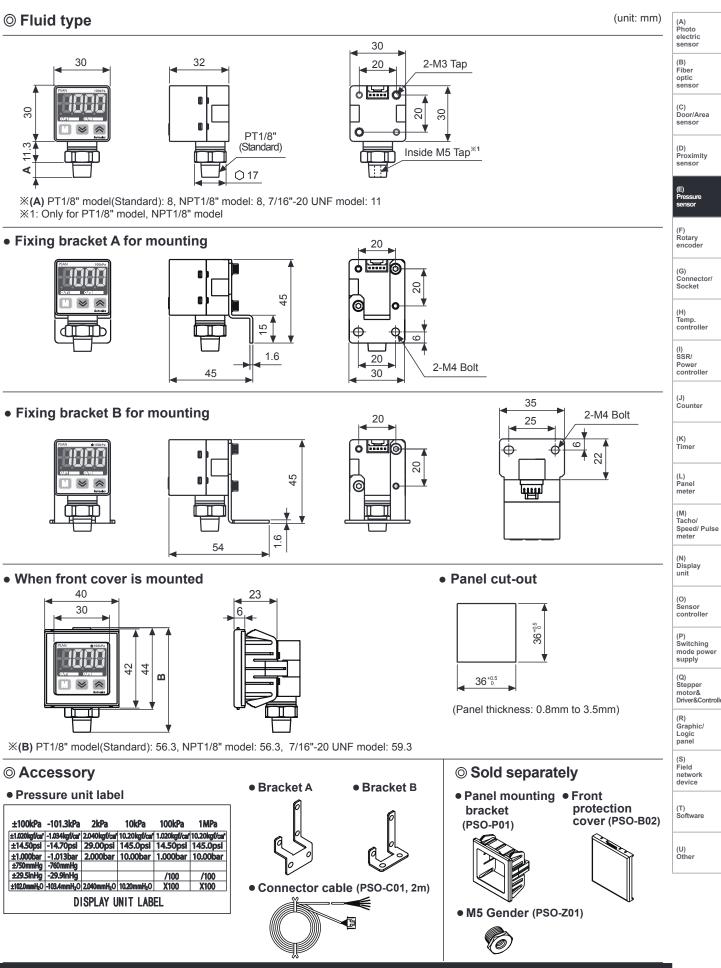
※F.S. : Rated pressure.

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

*Environment resistance is rated at no freezing or condensation.



Pressure Sensor

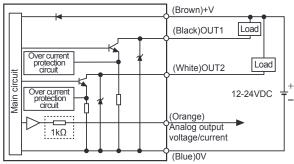


Autonics

Control output diagram

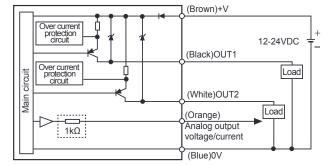
© Voltage (1-5VDC) output type (PSAN- □ □ □ □ □ V- □) Current(DC4-20mA) output type (PSAN- □ □ □ □ □ A- □)

NPN open collector output type



• PNP open collector output type

PNP open collector output type



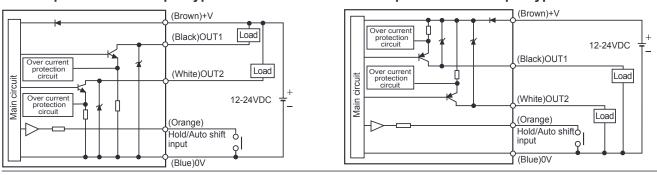
XIn case of analog voltage output type models short-circuit protection is not embodied. (For voltage output type only.) Do not connect with power source or load directly.

*Be careful with input impedance of connecting devices when using analog voltage output type models.

%Be careful with voltage drop due to cable resistance when extending sensor cable.

◎ Hold/Auto shift input (PSAN- □□□□ H- □)

NPN open collector output type



Front panel identification and function



1. Range of rated pressure

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

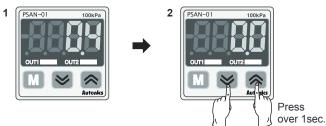
- Use different unit as label for your application.
- 2. 4digit LED display(Red)
- : Used to indicate measured pressure value, setting value and error message.
- 3. Output1 indicator(Red): Output 1 is ON, LED will be ON.
- 4. Output2 indicator(Green): Output 2 is ON, LED will be ON.
- 5. M key: Used 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.

Setting

	Press M key over 3sec.	Parameter setting	Pressure unit setting Output operation mode setting Output type setting Response time setting Analog output scale and Hold/Auto Shift input setting Key lock setting
	M	Preset value setting	Detection level 1 setting (out1)
RUN mode		Forced output control mode setting	The forced output control mode is applied with pressing \blacksquare key after selecting forced output control mode $[F_{.a}UL]$ in output operation mode $[aUL.\bar{n}]$ parameter. For more detailed information, refer to '• Forced output control mode' ' \blacksquare Output operation mode'
RL R	Press key over 3sec.	Peak hold	High peak value check Low peak value check Auto shift input setting (In case of Hold/Auto shift input type model)
	Press ⊗+⊗ keys over 1sec.	Zero-point adjustment	Zero-point adjustment

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 0.0 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.

I	(D) Proximity sensor
	(E) Pressure sensor
	(F) Rotary encoder
	(G) Connector/ Socket
	(H) Temp. controller
	(I) SSR/ Power controller
	(J) Counter
	(K) Timer

(A) Photo electric sensor

(B) Fiber optic sensor

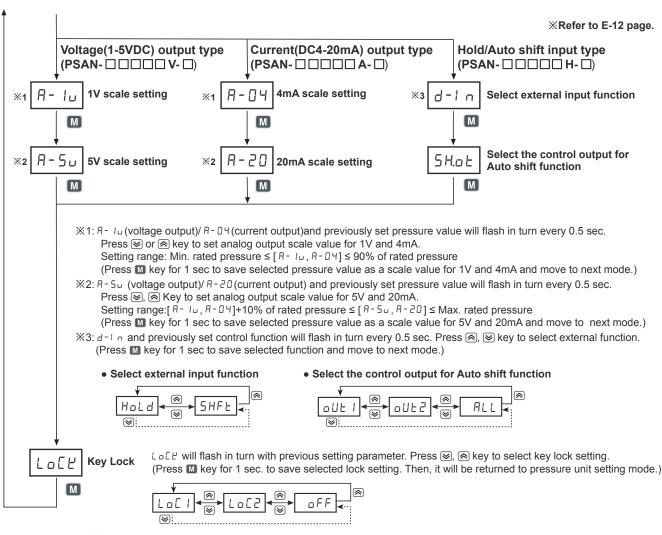
(C) Door/Area sensor

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.)

RUN mode		(I) SSR/ Power controller
Press M key key over 3sec.		(J) Counter
→ Unit Pressure unit Pre	I E and previously set unit will flash in turn every 0.5 sec. ess Image or Rever to select the unit. ress Image for 1 sec to save selected unit and move to next mode.)	(K) Timer
M	Negative pressure, compound pressure:	(L) Panel meter
L S		(M) Tacho/ Speed/ Pulse meter
	Pa) (kgf/cm²) (bar) (psi) (mmHg) (inHg) (mmH₂O) Standard pressure: Multiply display value	(N) Display unit
	$ \begin{array}{c} & & \\ \hline \overrightarrow{PP} & \textcircled{\otimes} & \\ \hline \overrightarrow{PP} & \textcircled{\otimes} & \\ \hline & & \\ \hline \\ \hline$	(O) Sensor controller
	E.ā and previously set output operation mode will flash in turn every 0.5 sec.	(P) Switching mode power supply
Pre Pre	ess ⊠ or ⊗ key to select output operation mode. ress III key for 1 sec. to save selected output operation mode and move to next mode.)	(Q) Stepper motor& Driver&Controlle
	⋓ ⋈ ⋈	(R) Graphic/ Logic panel
Pre	and previously set output operation mode will flash in turn every 0.5 sec. $ess \otimes or \otimes key$ to select output type. ress III key for 1 sec. to save selected output type and move to next mode.)	(S) Field network device
	$ \begin{array}{c} & & \\ & & \\ \hline \\ \hline$	(T) Software
	d and previously set output operation mode will flash in turn every 0.5 sec.	(U) Other
	ess	
	$\begin{array}{c} \checkmark \\ \hline 2.5 \\ \hline \otimes \\ \hline 5.0 \\ \hline \\ $	

PSAN Series

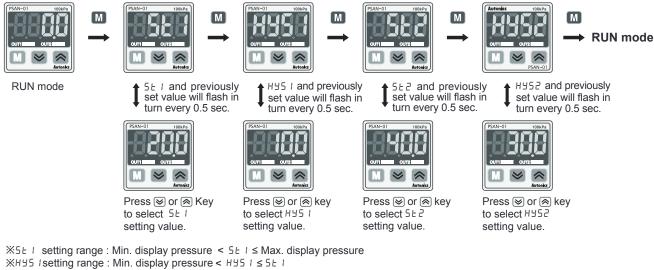


When pressing M key for 3 sec. in the middle of parameter setting, current setting value will be saved in EEPROM and it will be returned to RUN mode.

XAII settings are saved in EEPROM regardless of power failure. Make sure that EEPROM has a limited write life cycle(100,000 times).

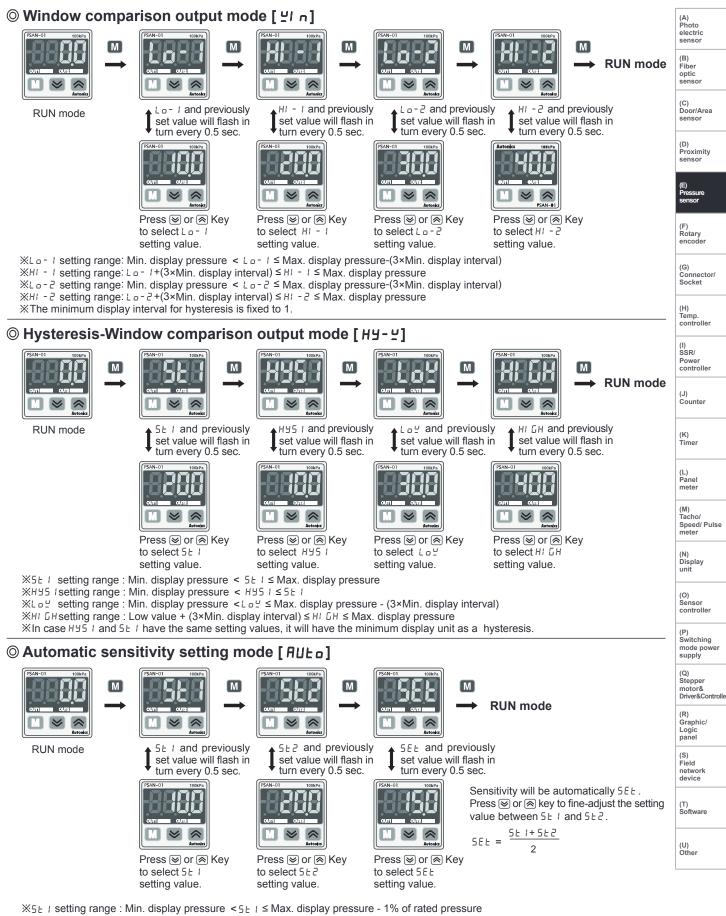
Preset setting

© Hysteresis mode [អម5ភ]



```
※5₺2 setting range : Min. display pressure < 5₺2 ≤ Max. display pressure
%H952 setting range : Min. display pressure < H952 ≤ 5₺2</p>
```

Pressure Sensor



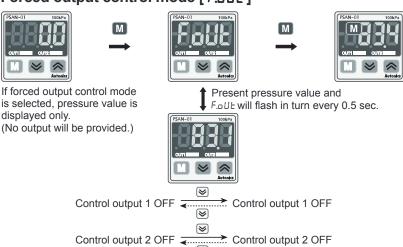
 $\%_{5L2}$ setting range : 5L + 1% of rated pressure < $5L2 \le Max$. display pressure

*If certain detection level difference is not ensured, or setting conditions are not met, Err3 message will flash three times and returned to 522 setting mode. Check all setting conditions and set proper setting values.

PSAN Series

© Forced output control mode [F.⊔ ⊔ L]





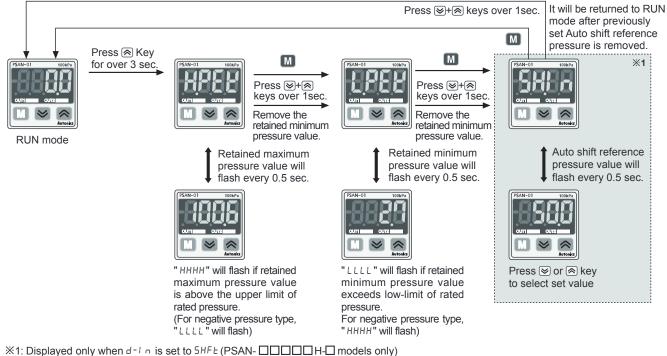
1

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.)

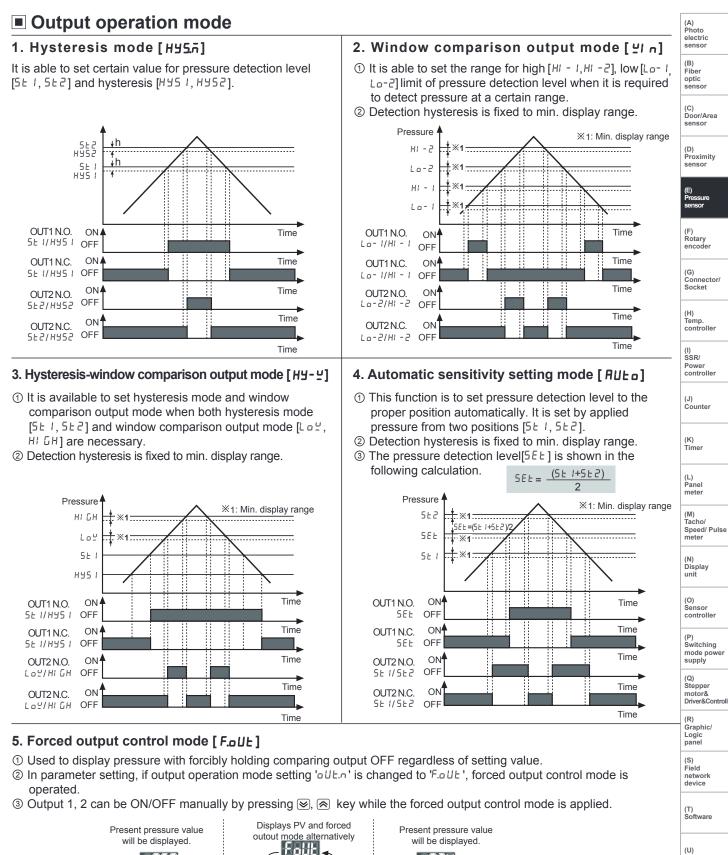
• Facto	• Factory default (unit: kPa)							
Output mode	Negative pressure 0.0 to -101.3	Standard pressure 0.0 to 100.0	Standard pressure 0 to 1,000	Compound pressure -101.3 to 100.0				
H95.ñ	5E 1:-50.0	5E 1:50.0	5E 1:500	5E 1:50.0				
	H95 1:0.0	H95 1:0.0	H95 1:0	HH5 1:-50.0				
	SE2:-50.0	5E2:50.0	5E2:500	SE2:50.0				
	H952:0.0	H952:0.0	H952:0	HH52:-50.0				
<u>⊻</u> In	Lo-1:0.0	Lo-1:0.0	L = - 1:0	L = - 1:-50.0				
	HI-1:-50.0	HI - 1:50.0	HI - 1:500	HI - 1:50.0				
	Lo-2:0.0	Lo-2:0.0	L = - 2:0	L = - 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				
	HH5 1:0.0	H95 1:0.0	H95 1:0	H95 1:-50.0				
	LoH:0.0	Log:0.0	Log:500	Log:-50.0				
	HIGH:-50.0	H1GH:50.0	H1GH:0	HIGH:50.0				
AUEo	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-14 page for more details.)







Autonics

∕

M

758

ON

ON

OFF

OFF

M

8

 \otimes

Display

Output 1

Output 2

834

Time

Time

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 [אַבּצאַ]

When needed to change hysteresis for detecting pressure.

• Window comparison output mode [יו ח]

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 [AUL o]

When needed to set detection sensitivity automatically at proper position.

Forced output control mode [F_ULE]

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

O 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.

	1	
OUT1 output	OUT2 output	Parameter setting value
Normally Open	Normally Open	1020
Normally Open	Normally Closed	1020
Normally Closed	Normally Open	1020
Normally Closed	Normally Closed	1656

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 [$\Re - I_{u}$] to pressure point of 5VDC output [$\Re - 5_{u}$].

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 [$R - D^{-}$] to pressure point of 20mA output [R - 2D].

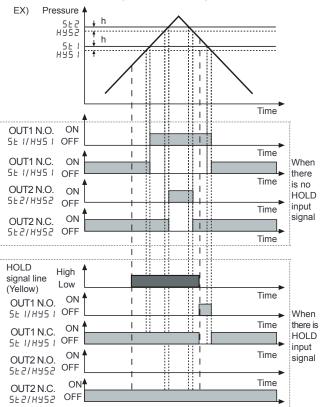
O Hold/Auto shift input setting

• Hold

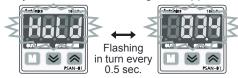
A function to hold present pressure value and control output at the time of hold signal input.

- 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-8 page.



※[H_DL_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.

- %5HL (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.
- 5Hot: 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.

Pressure Sensor

(A) Photo

electric

senso

(B)

(C) Door/Area senso

(D) Proximity

senso

(E) Pressure

(F) Rotary

encode

(G)

(H)

(I) SSR/

Power controller

(J) Counter

(K) Time

(L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching

mode pov supply

(Q) Stepper

(R) Graphic/ Logic panel

(S) Field network

device

(T) Software

(U) Other

motor& Driver&Controll

Temp. controller

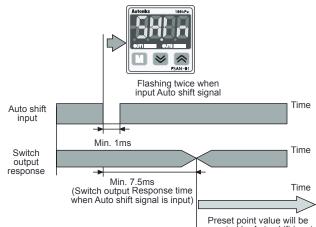
Fiber

optic sensor

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 $[5H_{in}]$.



corrected by Auto shift input.

- When Auto shift function is used, the possible set pressure range will be wider than rated set pressure range.
- XThe possible set pressure range for Auto shift type models.

Pressure type		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.

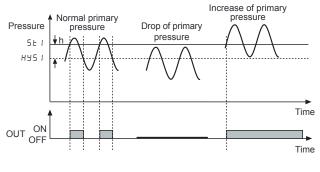
 \rightarrow [-HH-] displayed when the set point value corrected by Auto shift input is above the upper limit of set pressure range.

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

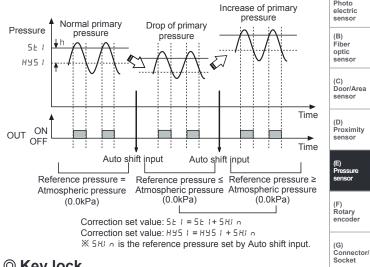
XThe correction value will be saved in EEPROM.

Example of Auto shift

< When Auto shift is not used >



< When Auto shift is used >



Key lock

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

- L D [1: All keys are locked; therefore it is not available to change parameter settings, preset value, zero adjustment, High/Low peak check, and 5H/ 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.)

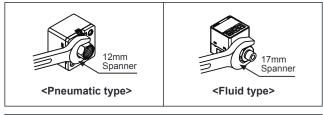
O High Peak / Low Peak Hold

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
Err I	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
ErrJ	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
- HH - - L L _ - H o _	Auto shift correction error	Set the corrected setting value within setting pressure range.

Installation

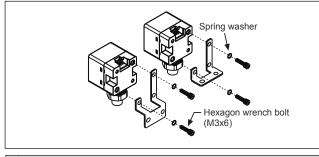
- 1. Pressure port is divided as basic and option specification. Therefore, be sure that to use commercially available one touch fitting. (Standard: (pneumatic type): Rc1/8", (fluid type): R(PT)1/8", Option: NPT1/8", R1/8")
- Please connect it by using spanner: (pneumatic type) 12mm, (fluid type) 17mm 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.

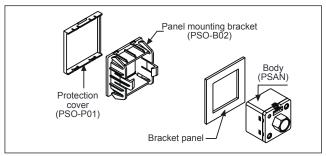
- Two different fixing brackets are provided for PSAN model. Select proper one with considering your application environments.
- At first, please unscrew hexagon wrench bolt and assemble the bracket on this unit by fixing hexagon the wrench bolt.



∆Caution

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

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

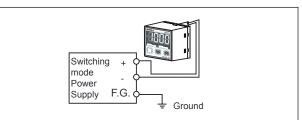


Proper usage

∆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.