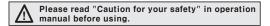
Small size, 1/2,000 resolution connector type digital pressure sensor

■ Features

- •Ideal for a wide range of applications of gas, liquid, and oil. (Inappropriate to corrosion environment for SUS316L)
- •Enhanced environmental resistance with diaphragm
- •1/2,000 high resolution for indication
- Hold/Auto shift input function(Only for models with Hold/Auto shift input type)
- -Hold: Holding instantaneous outputs and display value
- -Auto shift: Enable to output regardless of initial pressure change
- Hold function for instantaneous outputs and holding display value
- •2 independent outputs and NO/NC output selectable
- •Forced-output mode embodied for easy operation test and monitoring
- •One-touch connector type for easy maintenance
- ●Analog output (1/2,000 resolution, voltage: 1-5V, current: 4-20mA)
- •Zero-point adjustment function, peak monitoring function, and chattering prevention function





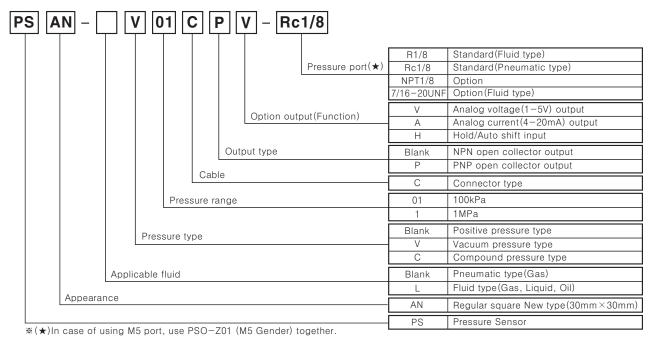


Pneumatic type





Ordering information



Pressure and Max. pressure display range

Type	kPa	kgf/cm²	bar	psi	mmHg	inHg	mmH2O
Vacuum	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)
	0.0 to 100.0	0.000 to 1.020	0.000 to 1.000	0.00 to 14.50			
Positive	(-5.0 to 110.0)	(-0.051 to 1.122)	(-0.050 to 1.100)	(-0.72 to 15.96)			·
pressure	0 to 1000	0.00 to 10.20	0.00 to 10.00	0.0 to 145.0			
	(-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.

E-1 Autonics

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

■Pressure conversion chart

from to	Pa	kPa	MPa	kgf/cm²	mmHg	mmH2O	psi	bar	inHg
1kPa	1000.000	1	0.001000	0.010197	7.500616	101.9689	0.145038	0.010000	0.2953
1kgf/cm²	98066.54	98.066543	0.09806	1	735.5595	10000.20	14.22334	0.980665	28.95878
1mmHg	133.322368	0.133322	0.000133	0.001359	1	13.5954	0.019336	0.001333	0.039370
1mmH ₂ O	9.80665	0.00980		0.000099	0.0735578	1	0.00142	0.000098	0.002895
1psi	6894.757	6.89493	0.00689	0.070307	51.71630	703.07	1	0.068947	2.036074
1Pa	100000.0	100.0000	0.100000	1.019689	750.062	10196.89	14.50339	1	29.52998
1inHg	3386.417	3.386388	0.003386	0.034532	25.40022	345.31849	0.491158	0.033863	1

Ex)For calculating 760mmHg as kPa:

According to above chart, 1mmHg is 0.133322kPa, therefore 760mmHg will be 760×0.133322kPa=101.32472kPa.

Specifications

Drocoure ture		Gauge pressure								
Pressure type		Vacuum pressure type Positive pressure type Compound press							ressure type	
	Analog voltage output	PSAN-(L)V01C(P)V-	- PSA	N-(L)0	IC(P)V-	PSAN-(L)	1C(P)V-□	PSAN-(L)C	01C(P)V-	
Mode		PSAN-(L)V01C(P)A-	_	PSAN-(L)01C(P)A-		PSAN-(L)1C(P)A-		PSAN-(L)C01C(P)A-		
(★1)	Hold/Auto shift input	PSAN-(L)V01C(P)H-	_		IC(P)H-	PSAN-(L)	1C(P)H-□	PSAN-(L)C		
Rated	d pressure range	0.0 to -101.3kPa		0.0 to 10	0.0kPa		,000kPa	-101.3kPa	to 100.0kPa	
	ay pressure range	5.0 to -101.3kPa		5.0 to 1	10.0kPa	-50 to	1,100kPa	-101.3kPa	to 110.0kPa	
Min.disp	olay unit(internal resolution)	0.1kPa(1/2,000)	C).1kPa(1/	(2,000)	1kPa(1/2,000)	0.1kPa(1/2,000)	
Мах.	pressure range						ated pressure	2 times of ra	ited pressure	
Appli	cable fluid		oe 🖙 Air,	Non-co		and fluid that		ode SUS316L		
Powe	er supply		1	2V-24V	DC ±10%(I	Ripple P-P:M	ax. 10%)			
Curre	nt consumption					nt Output typ				
Control output		NPN open collector outpPNP open collector outp							oltage:Max. 1\	
Ну	steresis(★2)					olay range				
	peat error					in. display ra				
	sponse time		Sel	ectable 2		100ms, 500n	ns, 1000ms			
Sho	ort circuit protection					t-in				
Analo		 Output voltage:1-5VDC ±2% F.S Linear:Within ±1% F.S Output impedance: 1kΩ Zero point:Within 1VDC ±2% F.S Span:Within4VDC ±2% F.S Resolution:1/2,000 (equal to display resolution) Response Time:50ms 								
(* 3)		• Output current: $4-20$ m $\Delta + 2\%$ F.S. • Linear: Within $\pm 1\%$ F.S. • Zero-point: Within 4 m $\Delta + 2\%$ F.S.								
Displa	ay method				4 digit LEI	7segment				
4 pre	resolution essure unit	1000 2000	1	000	2000	1000	2000	1000	2000	
Display interval(★4)	kPa	0.1 —	(0.1	_	1	_	_	0.1	
erve	kgf/cm²	0.001 —	0.	.001	_	0.01	_	_	0.001	
int.	bar	0.001 —	0.	.001	_	0.01	_	_	0.001	
ay	psi	- 0.01		_	0.01	_	0.1	_	0.02	
dsi	mmHg	- 0.4		_	_	_	_	_	0.8	
	inHg	- 0.02		_	_	_	_	_	0.03	
M E M E	mmH ₂ O	0.1 —		_	_	_	_	_	0.1	
	acteristic of control it and display temp.	Max. ±0.5% F.S. of display pressure at 25℃ within 0℃ to 50℃ *Max. ±1% F.S. of display pressure at 25℃ under -10℃								
	og output temp. acteristic	Max. ±2% F.S. of display pressure at 25℃ within 0℃ to 50℃								
Dielec	ctric strength	1000VAC 50/60Hz for 1 minute								
Insula	ation resistance	Min. 50MΩ (at 500VDC megger)								
Ambi	ent temperature	-10°C to +50°C (at non-dew status)								
Stora	ge temperature	-20℃ to +60℃ (at non-freezing status)								
	ent humidity	30 to 80%RH								
Stora	ge humidity	30 to 80%RH								
Vibrat	tion	1.5mm amplitude at frequency of 10 to 55Hz in each of X, Y, Z direction for 2 hours								
Prote	ction					pecification)				
Mate	rial	• Pneumatic t • Fluid type ☞							Brass	
Cable	е					m, AWG 24, I				
Appro	oval					€				
	weight	• Pr	neumatic	tyna 🖙	Approx. 84		ype 🖙 Appro	[7 [

*F.S: Rated pressure.
*(★1)
*(★2) In hysteresis output mode, detection difference is variable.

***(★1)** (P) is PNP output type, □ of model name is as pressure port. rariable. ***(★3)** It is allowed to select one analog output type only.

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

> (J) Counter

(K) Timer

(L)
Panel
meter

(M)
Tacho/
Speed/
Pulse
meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

(R) Graphic/ Logic panel

(S) Field network device

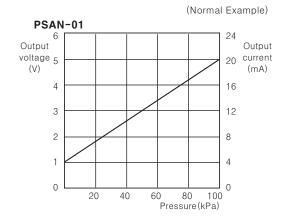
(T) Production stoppage models & replacement

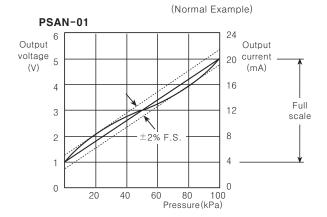
Autonics E-2

^{※(★4)} Resolution(1000/2000) of min. Display interval is automatically selected depend on pressure units.

PSAN Series

•Analog output voltage and current-Pressure characteristic •Analog output voltage and current-Linear characteristic

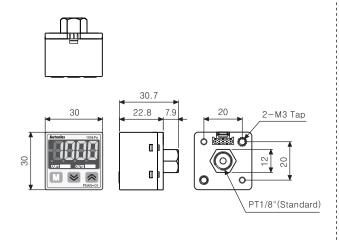




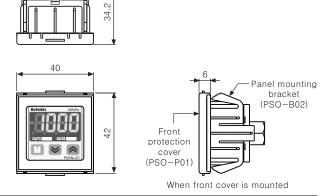
Dimensions

OPneumatic type

(Unit:mm)

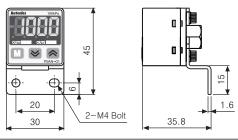






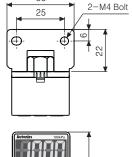




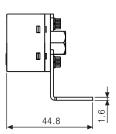


•Fixing bracket B for mounting

35

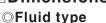




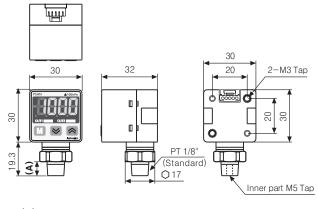


Autonics E-3

Dimensions



(Unit:mm)



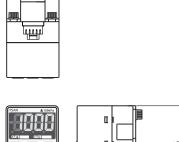
***(A)** PT1/8" model(Standard): 8, NPT1/8" model: 8, 7/16"-20 UNF model: 11

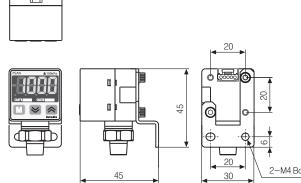
*(*1) Only for PT1/8" model, NPT1/8" model

Panel mounting bracket 35.5 30 Panel mounting bracket (PSO-B02) Front <u>B</u> protection cover (PSO-P01) When front cover is mounted

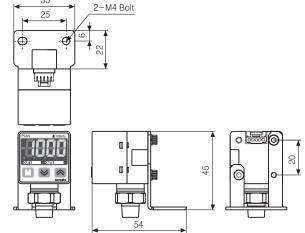
※(B) PT1/8" model(Standard): 56.3, NPT1/8" model: 56.3, 7/16"−20 UNF model: 59.3

•Fixing bracket A for mounting









Accessory (Sold separately)

●Panel cut-out



(Panel thickness: 0.8mm to 3.5mm)

• Panel mounting • Front protection



< PSO-B02 >





• M5 Gender

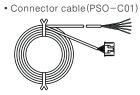
Accessory

· Pressure unit label

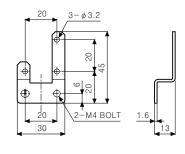
±1.020kgf/cm*	-1.034kgf/cm²	2.040kmf/out			
144 FOrnal		ZUTUKYI/(III	10.20kgf/cm*	1.020kgf/cm	10.20kgf/cm
±14.50psi •	-14.70psi	29.00psi	145.0psi	14.50psi	145.0psi
±1.000bar	-1.013bar	2.000bar	10.00bar	1.000bar	10.00bar
±750mmHg	-760mmHg				
±29.5inHg	-29.9inHg			/100	/100
±102.0mmH ₂ O -	103.4mmH ₂ O	2.040mmH ₂ O	10.20mmH ₂ O	X100	X100

Bracket A





●Bracket A



●Bracket B 2-M4 Bolt 20 20

(A) Photo electric sensor

(B) Fiber sensor

Door/Area sensor

Proximity sensor

(E) Pressure sensor

Rotary encoder

Connector/ Socket

(H) Temp.

(I) SSR/ Power controller

(J) Counter

Timer

(L)

meter Tacho/ Speed/ Pulse meter

(N) Display unit

Sensor controller

Switching power supply

(Q) Stepping motor & Driver & Controlle

Graphic/ Logic panel

(S) Field network device

Production stoppage models & replacement

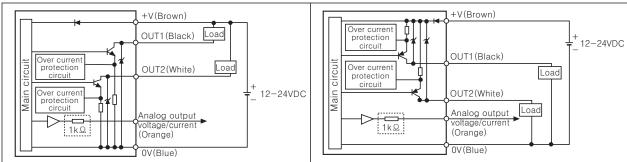
Autonics E-4

■Control output diagram

○Analog output (Voltage output PSAN-□□□□V-□, Current output PSAN-□□□□A-□ type)

●NPN open collector output type

●PNP open collector output type



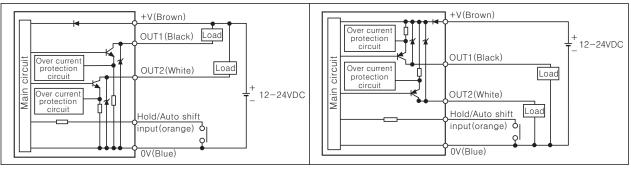
- **In case of analog voltage output type models short-circuit protection is not embodied. (: For voltage output type only.)

 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-□ type)

●NPN open collector output type

●PNP open collector output type



■Front panel identification and function

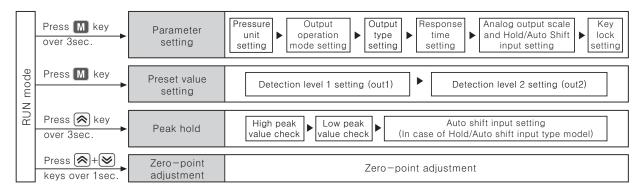


- 1 Range of rated pressure: The unit label is changeable.
 - Please use a desired measure unit label.
- 2 4 digit LED display(Red): Indicates measuring pressure value, setting value, and error
 - message.
- 3 Output1 indicator(Red): Output 1 is ON, LED will be ON.
- 4 Output2 indicator(Green): Output 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.
- ▼ keys: Used for zero-point adjustment function by pressing

 +

 keys over 1 sec. simultaneously in RUN mode.

Setting



E-5 Autonics

■Zero-point adjustment









2. When the zero-point adjustment is completed, it will display $\boxed{0.9}$ and return to RUN mode automatically.

*Please execute zero-point adjustment regularly.

If executing zero-point adjustment when external pressure has been applied, **Err!** will flash.

Please execute zero-point adjustment again in state of atmospheric pressure without external pressure.

(E) Pressure sensor

Proximity

sensor

Door/Area

Photo electric

(B) Fiber optic sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

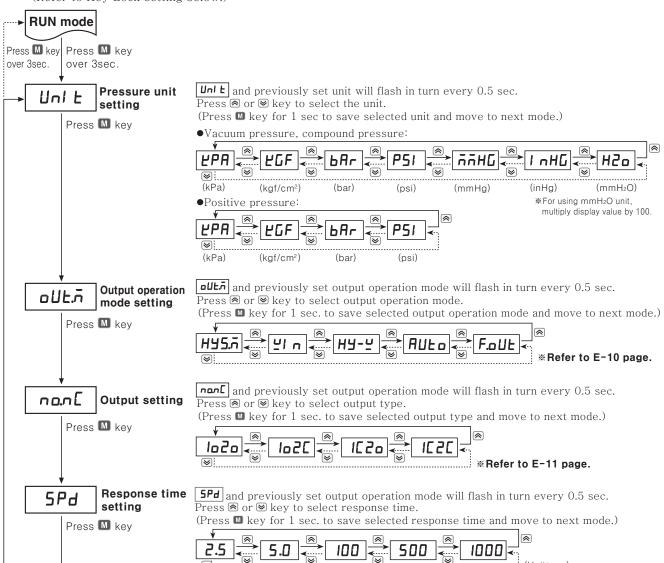
Graphic/ Logic panel

(S) Field network device

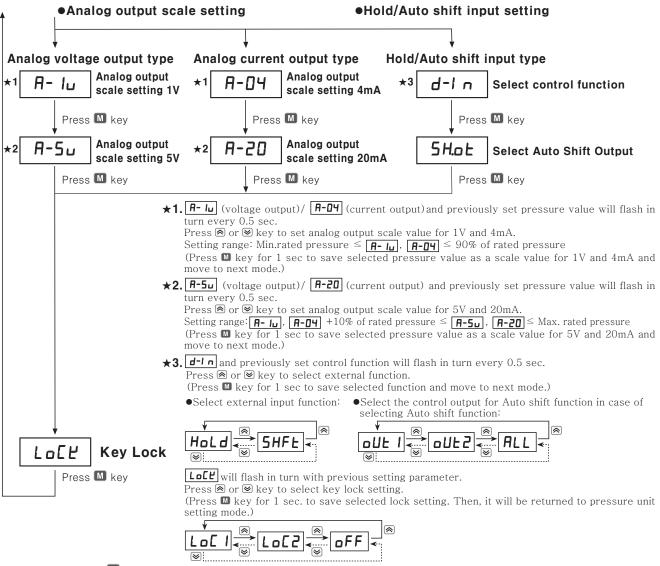
(T)
Production
stoppage
models &
replacement

■ 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.)



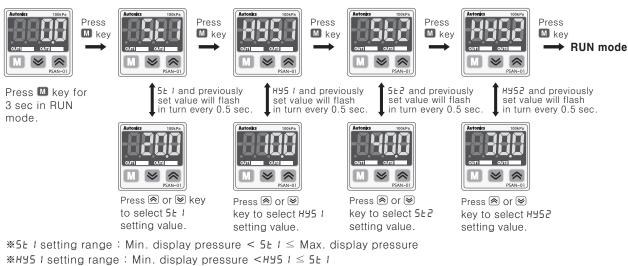
PSAN Series



- *When pressing ₩ 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.
- **All 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(H55.Ā)

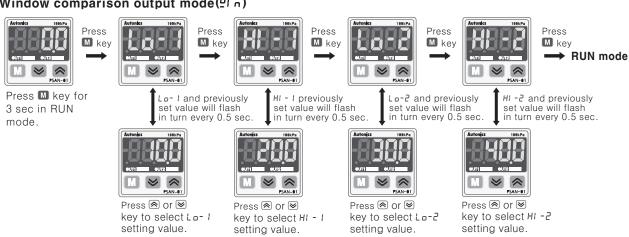


E-7 Autonics

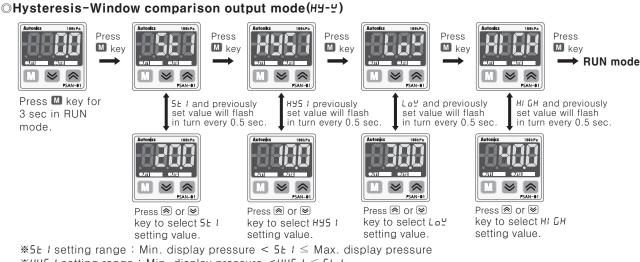
¾HY52 setting range : Min. display pressure <HY52 ≤ 5£2</p>

*SE2 setting range: Min. display pressure < 5E2 ≤ Max. display pressure
</p>

○Window comparison output mode(੫ ਜ)



**Low value setting range: Min. display pressure < Lo-1, Lo-2 ≤ Max. display pressure – (3×Min. display range)
</p> #High value setting range: Lo-1, Lo-2+(3×Min. display range) ≤ HI-1, HI-2 ≤ Max. display pressure *The minimum display unit for hysteresis is fixed to 1.



¾HY5 I setting range : Min. display pressure <HY5 I ≤ 5Ł I</p>

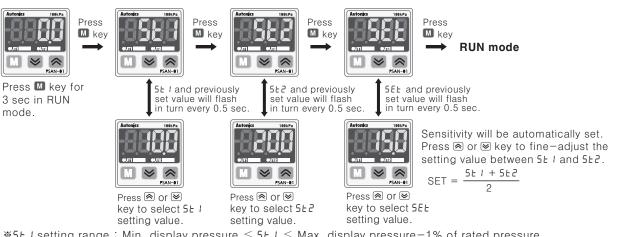
**Low value setting range: Min. display pressure < Ło

± ≤ Max. display pressure − (3×Min. display range)
</p>

 \Re High value setting range: Low value+(3×Min. display range) ≤ HI \Box H ≤ Max. display pressure

※In case #95 / and 5₺ / have the same setting values, it will have the minimum display unit as a hysteresis.

○Automatic sensitivity setting mode(AULa)



★5Ł / setting range: Min. display pressure ≤ 5Ł / ≤ Max. display pressure-1% of rated pressure

%5£2 setting range : 5£ /+1% of rated pressure ≤ 5£2 ≤ Max. display pressure

፠If certain detection level difference is not ensured, or setting conditions are not met, Err∃ message will flash three times and returned to 5£2 setting mode. Check all setting conditions and set proper setting values.

※In case of PSAN-□□□□H-□ models, it is possible to set 5£ I and 5£2 using option input (yellow) after applying pressure on pressure port.

electric sensor (B)

Photo

sensor

Door/Area

Proximity sensor

(E) Pressure sensor

encoder

(G) Connector/ Socket

(H) Temp.

(I) SSR/ Power controller

> (J) Counter

Timer (L)

(K)

meter Tacho Speed/ Pulse meter

(N) Display unit

(0) Sensor controller

Switching power supply

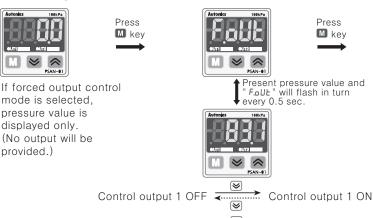
(Q) Stepping motor & Driver & Controlle

Graphic/ Logic panel

(S) Field network device

Production stoppage models & replacement

©Forced output control mode(F.□UL)



•Factory default

Control output 2 ON

(Unit:kPa)

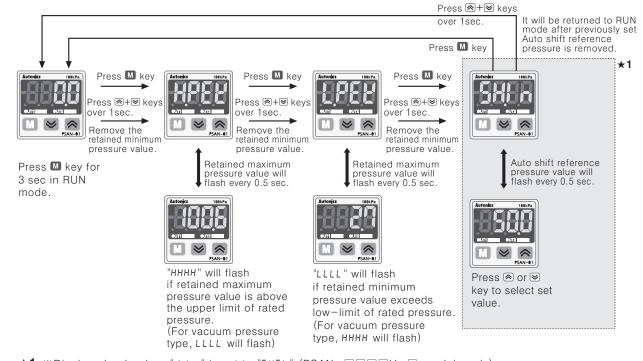
*If there is no additional key operation within 60 sec while setting, it is returned to Run mode (Except for force output mode). Previously set values are remained.

Control output 2 OFF

- *In case of changing output operation mode, no preset values will be initialized. Instead, previous output operation settings will become the preset values.
- *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.)
- *When using the forced output function, Hold/Auto shift function is not available to use in Hold/Auto shift model.

Output mode	Vacuum pressure -101.3 to 0	Positive pressure 0 to 100.0	Positive pressure 0 to 1,000	Compound pressure -101.3 to 100.0
#45.50		5£ 1:50.0	5t 1:500	5£ 1:50.0
H425:0		HY5 1:0	HY5 1:0	HY5 1:-50.0
H425:0		5£2:50.0	5t2:500	5£2:50.0
H425:0		HY52:0	HY52:0	HY52:-50.0
āl u		Lo- 1:0 HI - 1:50.0 Lo-2:0 HI -2:50.0	La- 1:0 HI - 1:500 La-2:0 HI -2:500	La-1:-50.0 HI - 1:50.0 La-2:-50.0 HI -2:50.0
HA-7	5t 1:-50.0	5£ 1:50.0	5E 1:500	5£ 1:50.0
	HY5 1:0	HY5 1:0	HY5 1:0	HY5 1:-50.0
	Lay:0	LoY:0	Loy:0	Lay:-50.0
	HI GH:-50.0	HI GH:50.0	HI GH:500	HI GH:50.0
AULo	5t 1:0	5t 1:0	5t 1:0	5t 1:-50.0
	5t2:-50.0	5t2:50.0	5t2:500	5t2:50.0
	5tt:-25.0	5Et:25.0	5Et:250	5Et:0

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



★1. **Displayed only when "d-In" is set to "5HFL".(PSAN-□□□□H-□ models only)

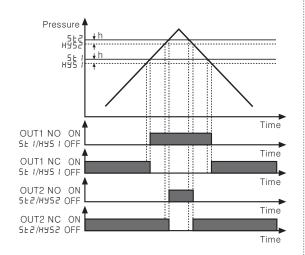
**If there is no Auto shift input, "□" will be displayed.(Refer to E-11 page for more details.)

E-9 Autonics

■Output operation mode

1. Hysteresis mode(หรร.ก)

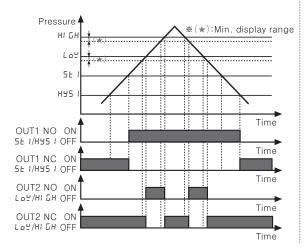
It is able to set certain value for pressure detection level(5£ 1, 5£2) and hysteresis(H95 1, H952).



3. Hysteresis-window comparison output mode(HY-Y)

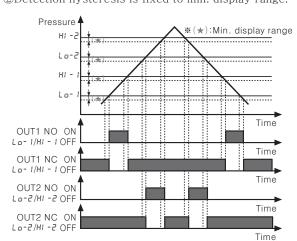
①It is available to set hysteresis mode and window comparison output mode when both hysteresis mode(5£ 1, HY5 1) and window comparison output mode(LoY, HIGH) are necessary.

2Detection hysteresis is fixed to min. display range.



2. Window comparison output mode(🗓 n)

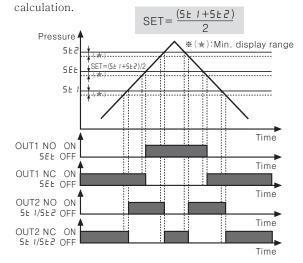
①It is able to set the range for high(H!-!, H!-2), low(Lo-!, Lo-2) limit of pressure detection level when it is required to detect pressure at a certain range.
②Detection hysteresis is fixed to min. display range.



4. Automatic sensitivity setting mode (AULD)

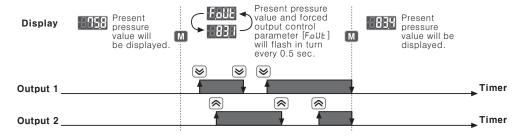
①This function is to set pressure detection level to the proper position automatically. It is set by applied pressure from two positions(5£ 1, 5£2).

②Detection hysteresis is fixed to min. display range. ③The pressure detection level is shown in the following



5. Forced output control mode(F.oUL)

①Used to display pressure with forcibly holding comparing output OFF regardless of setting value.
②Output 1, 2 can be ON/OFF manually by pressing ⑤, ❷ key while the forced output control mode is applied.



(A) Photo electric sensor

(B) Fiber optic sensor

> (C) Door/Area

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L)

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

Switching power supply

Stepping motor & Driver & Controller

Graphic/ Logic panel

> (S) Field network device

(T) Production stoppage models & replacement

Autonics E-10

■ Functions

OPressure unit change function

PSAN-V01C(P) and PSAN-C01C(P) has 7 kinds of pressure unit, PSAN-01C(P) and PSAN-1C(P) has 4 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): kPa, kgf/cm², bar, psi
 When using mmH₂O unit, multiply display value by 100.

Output mode change function

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

- Hysteresis mode(HYST): When needed to change hysteresis for detecting pressure.
- Window comparison output mode(41 n): When needed to detect pressure in certain area.
- Hysteresis Window comparison output mode(Hソービ)
 : When both hysteresis mode and window comparison output mode are required.
- Automatic sensitivity setting mode (AULa): When needed to set detection sensitivity automatically at proper position.
- Forced output control mode(FoUL): When needed to display pressure with remaining comparison output OFF regardless of setting value.

Control output change function

Type of control output for Out1 and Out2 is able to set Normal Open or Normal Close.

*Note that Normal Open and Normal Close provide opposite output.

OUT1 output	OUT2 output	Parameter setting value
Normal Open	Normal Open	[1050]
Normal Open	Normal Close	[1050]
Normal Close	Normal Open	[1650]
Normal Close	Normal Close	[1020]

Response time change function (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.

OAnalog output scale setting function

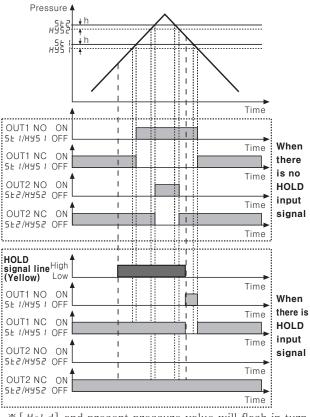
- Analog voltage output scale setting: The scale function for analog output voltage (1-5VDC) is not fixed to the rated pressure range. It can be changed for User's application. Analog output voltage range will be fixed to 1-5VDC within the pressure range from pressure point of 1VDC output(A-1u) to pressure point of 5VDC output(A-5u).
- Analog current output scale setting: The scale for analog output Current (4-20mADC) 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(A-04) to pressure point of 20mA output (A-20).

OHold/Auto shift input setting function

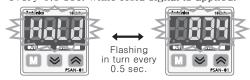
- Hold function: A function to hold present pressure value and control output at the time of hold signal input.
- **Present pressure value and Hold message will flash in turn every 0.5 sec. while Hold function is set. Make sure that Hold function is not able to execut while forced output mode is executed.

► Control output timing chart

EX) When Hold signal is applied in Hysteresis mode, refer to Control output diagram for hold signal input.



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



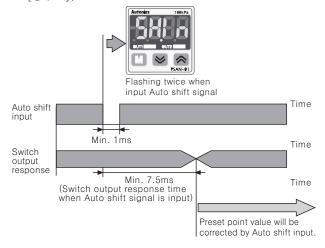
- Auto shift function: A function to use the measured pressure at the moment of auto shift input as a reference pressure in order to correct the set point values of control output when initial pressure changes.
- *Reference pressure is fixed to atmospheric pressure (0.0kPa) when Auto shift function is not used.
- **5# n (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.
- [BUL 1]: Changed reference will be applied to control output 1 only.
- [BUE2] : Changed reference will be applied to control output 2 only.
- [ALL] : Changed reference will be applied to both control output 1 and control output 2.

E-11 Autonics

▶ When Auto shift function 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.i n].



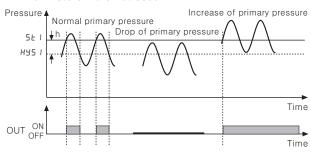
- *When Auto shift function is used, the possible set pressure range will be wider than rated set pressure
- *The possible set pressure range for Auto shift type models.

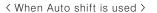
Pressure type	Set pressure range	Possible set pressure range for Auto shift type models
Vacuum pressure	-101.3kPa to 5.0kPa	-101.3kPa to 101.3kPa
Standard	-5.0kPa to 110.0kPa	-110.0kPa to 110.0kPa
pressure	-50.0kPa to 1100kPa	-1100kPa to 1100kPa
Compound pressure	-101.3kPa to 110.0kPa	-101.3kPa to 110.0kPa

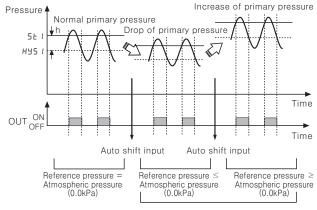
- *If the set point value corrected by auto shift input exceeds set pressure range, an error message will flash three times and corrected value is not saved.
 - \rightarrow [-HH-] displayed when the set point value corrected by Auto shift input is above the upper limit of set pressure range.
 - \rightarrow [-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 function

When Auto shift is not used >







Correction set value: [5EI]' = [5EI] + [5HIn]Correction set value: [HJSI]' = [HJSI] + [SHIn]※[5HJ n] is the reference pressure set by Auto shift input

OKey lock function

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

- Lo[! : 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)
- Lo[2 : Partially locked status; therefore it is not available to change parameter settings only (Lock setting change is available). Other settings are still available.
- of F : All of the setting is available, all keys are unlocked.

OZero-point adjustment function

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.)

OHigh Peak / Low Peak Hold function

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.

OError display function

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		
Err3	When setting condition is not met in Auto sensitivity setting mode			
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- -LL- -HL-	Auto shift correction error	Set the corrected setting value within setting pressure range.		

Photo electric sensor

(B) optic sensor

Door/Area

Proximity sensor

Pressure sensor

encoder

Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(1,) Counter

Timer

(K)

meter Tacho/ Speed/ Pulse meter

(N) Display unit

(0) Sensor controller

Switching power supply (Q) Stepping motor &

Controlle Graphic/ Logic

Driver &

(S) Field network device

Production stoppage models & replacement

Autonics E-12

Installation

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

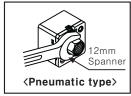
In this case, tightening torque of hexagon wrench should be max. 3kgf • cm.

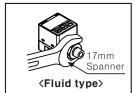
If not, it may cause mechanical problem.

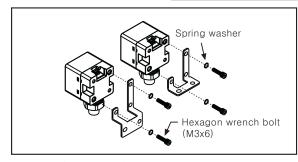
∧ Caution

The tightening torque of one touch fitting should be max. 100kgf • cm.

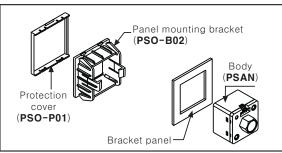
If not, it may cause mechanical problem.







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

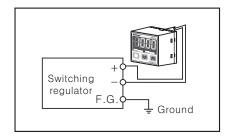


■ Proper usage

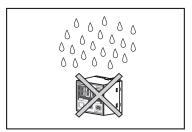
⚠ Caution

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 regulator as power supply, it must be grounded (F.G.).



- 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.

E-13 Autonics

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Autonics manufacturer:

Other Similar products are found below:

MT4W-DV-4N CR30-15AO E40S6-2500-6-L-5 LP-S070-T9D6-C5T PRFT30-10DO-V PRFWT12-2DO-IV PRFWT30-10DO-IV TC4W-24R TK4H-14CC TX4S-B4C TX4S-B4S CR30-15AC PRD12-8DN TMHA-42AE TMHE-82RE CX6M-1P2 PRFAT12-2DO-V PRFAWT12-2DO-IV PT4-S3DP5 PT8-S3DP5 SRH2-4440 SRH3-4430 SRHL1-4220 TF33-31H-R E50S8-360-3-T-24 BTF30-DDTL-P PR08-1.5DP2 PRL30-10DP AT8PSN-6 100/120VAC CT6S-2P4 BJ15M-TDT-P E40H12-1000-6-L-5 PRCM12-2DN PRDCM12-4DN PRDCM18-14DN PRDCM18-7DN PRDCM30-25DN PRDCML12-8DN PRDCML18-7DP PRDCML30-25DN SR1-4425 SR3-2450 TK4H-14SC TK4H-14SR TK4M-14RN TK4N-14RC TX4S-A4S PR08-1.5DP PR18-5AO SR3-1440R