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High-accuracy pressure switch of small-scale digit display of one inch

Performance characteristic

- High-accuracy pressure switch
- LCD shows (LCD: 20*9.6MM)
- High resolution: 1/3000 (Max)
- Unit can choose the pressure: PSI, Bar, kg/cm 2, Kpa, Mpa, inHg, cmHg, Atm.
- Many kinds of outputs way
- Two groups exporting
- The zero point adjusting
- Supreme working pressure can be up to 3000PSI
- Do use outside the non-corroding type fluid and air, can also use the liquid or the corrosive fluid
- Display can use seven kinds of colors
- Show temperature
- The pressure shows that there is pressure value which attaches the temperature compensation (General compensation temperature is 0-50 degrees Centigrade)





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The type forming

For air(SB):

(1). MGS-1Bar-SB-x : -1Bar ~ 1Bar

(2). MGS-10Bar-SB-x : -1Bar ~ 10Bar

For water (SA):

(1). MGS-1Bar-SA -x: -1Bar ~ 1 Bar

(2). MGS-10Bar-SA-x: -1Bar ~ 10Bar

(3). $MGS-35Bar-SA-x:-1Bar \sim 35Bar$

(4). MGS-70Bar-SA-x: -1Bar ~ 70Bar

(5). $MGS-100Bar-SA-x:-1Bar \sim 100Bar$

(6). MGS-200Bar-SA-x: -1Bar ~ 200Bar

PS: $x \Rightarrow N$ (out1 & out2 are npn output type)

x => P (out1 & out2 are pnp output type)

Specification	Air (SB)	Water (SA)
parameter		
Type		
The pressure amount	-1Bar to 1.05*F.S	-1Bar to 1.05*F.S
examines the range		
Destroy the pressure	20Bar(min)	(min)
Precision of pressure	1% F.S	1% F.S
Suitable fluid	It is not the air of the	Gas and fluid of corrosivity
	corrosivity to be clean	
Voltage of the power	DC 10 30V	
Consume the electric	Max: 80mA	
current		



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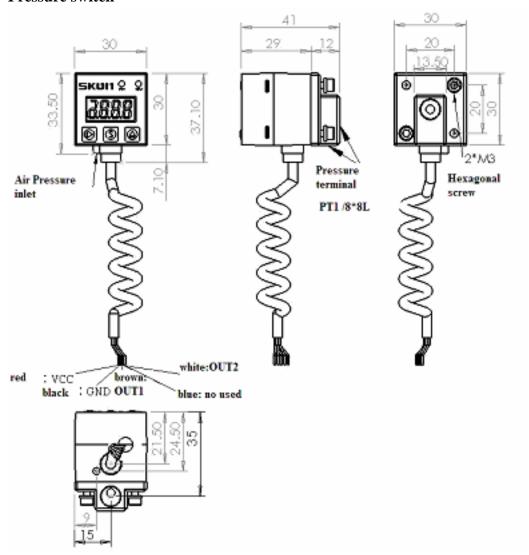
and armant	NDN load augment 100	Om A of DND voltage Maye	
and export	NPN, load current 100mA of PNP, voltage Max:		
	30VDC		
-	0 0 100 degrees Centigrade		
inge	1 202 (102)		
	± 2°C (4°F)		
	-10°C ~60°C (Non- frozen state)		
temperature			
Кеер	-20°C~70°C (Non- frozen state)		
temperature			
Use the	35- 85%		
humidity			
Keep the	35- 85%		
humidity			
ell's tooth of	R(PT) 1/8 *2		
ıre port			
terial	Cover from beginning	Cover from beginning to	
	to end: ABS	end: ABS	
	Tooth: Zn	Tooth: SUS304L	
roof grade	IP54		
he cable	UL2464 , 28AWG , 5P , φ 4mm , 50cm		
ntication			
eight	Invite 80g		
losure	Install the regular frame		
	Visor		
	(go to the two as one group)		
	The manometer uses and installs mounting bracket 1		
	The manometer uses and installs mounting bracket 2		
	(Have the two to select and use, when using, can't use at the		
	same time with first 2 also)		
	sion of erature Use temperature Keep temperature Use the humidity Keep the humidity ell's tooth of ire port terial coof grade he cable intication eight	nperature kamines the inge sion of	





Size of appearance

Pressure switch

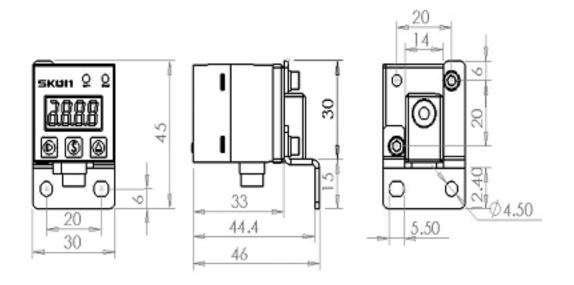


Install the mounting bracket (Support 1)

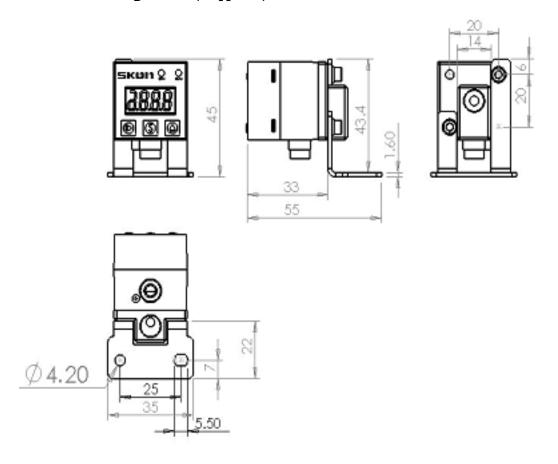




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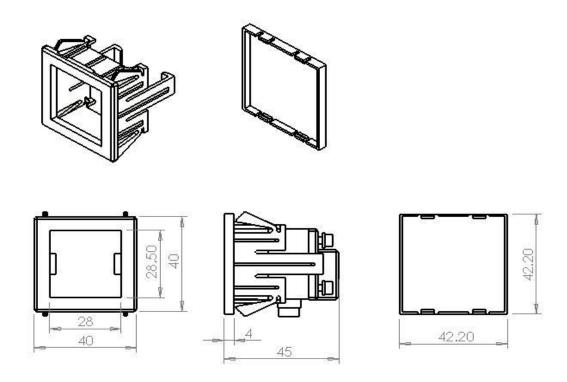
Install the mounting bracket (Support 2)



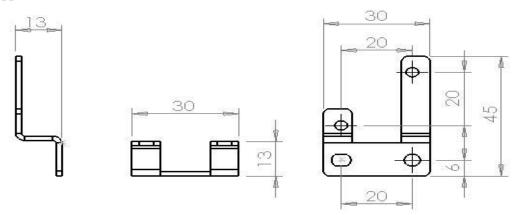


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Install regular frame and visor



Support 1

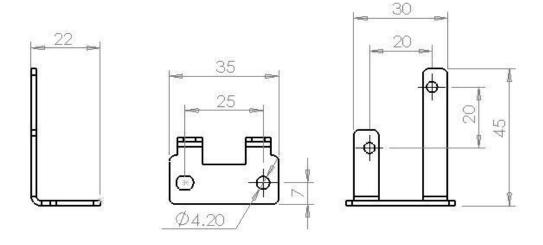


Support 2





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Operation instructions

The board in the front is explained

Above the screen, it own indicator lamp in common, it represent light out1 or out2 last state as (ON)

It represents out1 or out2 to export the state that the light puts out (OFF)

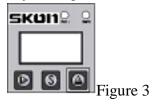
There is a button in centre above the screen. Show for S (setting sets up the key) ,Such as Fig.1



The left side has a triangular key right under the screen, it is a carry key, such as Fig.2



There is a upward triangular key on the right under the screen, in order to adjust the key of single direction, such as Fig.3





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Step that the pressure switch is set up

Set up in initial stage:

- 1. After it connect the power, it show the current pressure value (adjust unit and zero method as the following step) Set pressure unit as PSI in default.
- 2. Push and set up the key, show present temperature $XX^{\circ}\mathbb{C}$ or $XX^{\circ}\mathbb{F}$, display temperature unit of the last one that digital (Set unit as in default $^{\circ}\mathbb{C}$).
- 3. Show that recovers in order to show pressure value automatically five seconds later after temperature.
- 4. While showing pressure value, with one-way to adjust key the two at pushing over three o'clock at the same time carry key, the pressure belongs to zero.

Temperature and pressure unit to choose:

- 5. While showing pressure value, push and set up the key at more than o'clock five seconds, enter the way of setting up.
- 6. Setting up the pressure unit in order to set up of item 1 of the way, display P-X at this moment, uses and adjusts the key one-wayly, adjusting the figure of X, to the pressure units taken, X is 1, the unit that every figure represents is as follows, 1: PSI, 2: Bar, 3: kg/c, 4: Kpa, 5: Mpa, 6: inHg, 7: cmHg, 8: Atm.
- 7. Push carry after the key, is it set up the way item 2 in order to set up the temperature unit to enter, display t-X, uses and adjusts the key one-wayly, adjusts the characters of X at this moment, to the temperature units taken, X has $^{\circ}$ C (Centigrade), $^{\circ}$ F(Fahrenheit) Two units.

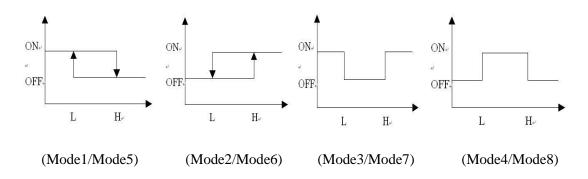
Output the way to choose:

8. After pushing the carry key, it set up way of item 3 for output one 1 of out's output ways to set up, display 1o-X at this moment to enter, use and adjust the key of single direction, adjust the digit of 1~4, have four kinds to output the way Mode1, Mode2, Mode3, Mode4 as show in following figure:





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Output the way and set up and click adjusting:

- 9. Push carry after the key, is it set up the way item 4 in order to set up and output a high pressure setting up value of out 1 to enter, the screen shows 1H about one second later first at this moment, the screen and then shows the present establishment value, utilize and adjust the key of single direction and adjust figures, utilize the carry key to adjust -figure number, illustrate with examples, if the setting up value is 103.4 display now, show that flickers 1 at the same time, show that can adjust 1 this units now, use and adjust the key of single direction and adjust figures, push the carry key in order to adjust -figure number, the next one should be flickered by 0 this units (Assume that has not adjusted 1 figure of this units) ,Depend on the situation is adjusted, push the carry key again and get 3 the unit of flashing, push the carry key, flicker the -figure number on the right most, namely is flickered by 4 this units.
- 10. Push carry after the key, is it set up way item 5 for is it output one 1 of out's low-voltage persons who set up to set up to enter, the screen shows 1L about one second later first at this moment, the screen and then shows the present establishment value, utilize and adjust the key of single direction and adjust figures, utilize the carry key to adjust -figure number, illustrate with examples, if the setting up value is 103.4 display now, show that flickers 1 at the same time, show that can adjust 1 this units now, use and adjust the key of single direction and adjust digit, push the carry key in order to adjust -figure number, the next one should be flickered by 0 this units (Assume that has not adjusted 1 figure of this units) ,Depend on the situation is adjusted, push the carry key again and get 3 the unit of flashing, push the carry key, flicker the -figure number on the right most, namely is flickered by 4 this units.



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- 11. After pushing the carry key, is it set up way item 6 for is it output one 2 of out's output ways to set up, display 2o-X at this moment to enter, use and adjust the key one-wayly, adjust the figure of 1, have eight kinds to output the way altogether Mode1,Mode2, ..., Mode8, the following picture, shows:

 Mode1 reaches Mode4: Represent out2 to control for the pressure (2H and 2L are for the pressure setting up value)

 Mode5 reaches Mode8: Represent out2 for temperature control (2H and 2L are for the temperature setting up value)
- 12. Push carry after the key, is it set up way item 7 to enter for for is it output 2 high positions of out 2 output the range to set up, the screen shows 2H about one second later first at this moment, the screen and then shows the present establishment value, other operation are the same as step 9. (if 2o-X choose Mode5 to Mode8,Lcd for displaying***°C 或****°F)
- 13. Push carry after the key, is it set up way item 8 to enter for for is it output 2 low location of out 2 output the range to set up, the screen shows 2L about one second later first at this moment, the screen and then shows the present establishment value, this is operated the samely as step 10. (if 2o-X choose Mode5 to Mode8,Lcd for displaying***°C 或****°F)

The color of the screen is adjusted

- **14.** After pushing the carry key, is it set up way item 9 to enter for for set up screen output, display bLX at this moment, use one-way to adjust key, figure to change X to the screen colors taken, X is 1, every digital representative's color is 1: Blue, 2: Green, 3: Blue and green, 4: Red, 5: Purple, 6: Yellow, 7: White.
- **15.** After pushing the carry key, finish setting up, display LoAd, stores the parameter, jumps and shows pressure value 5 seconds later at this moment.

Wiring diagram





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