

Shenzhen Xaori Technology Co.,Ltd

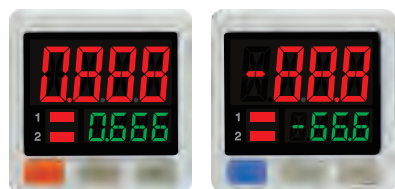
High-precision digital voltage switch



2020-01-20

1 Smart product design

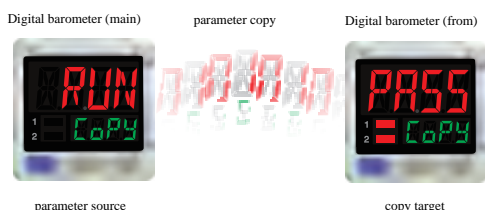
- The high-pressure and low-pressure buttons have different colors, making them easy to identify. Orange means high pressure and blue means low pressure.



High pressure type (-0.1~1.0MPa) Low pressure type (-101.3~101.3KPa)

2 Single-line parameter copy function

- Reduce set-up time
- Avoid human error
- Suitable for batch applications



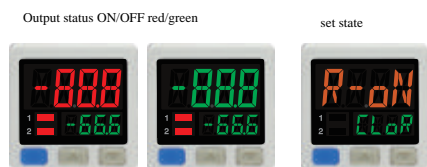
3 Easy-to-read target value

- The set pressure target value is displayed on the secondary screen, and the main screen displays the real-time pressure value, which helps to read the pressure target value at any time



4 Main screen three-color display

- Three-color display can highlight different working status, users can set content and backlight display mode

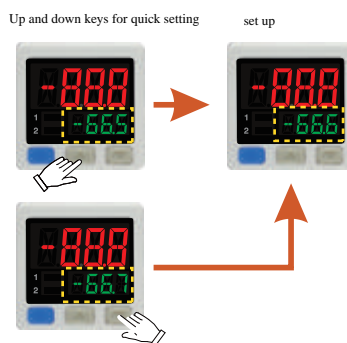


User-configurable backlight display

	ON	OFF	Red	Green	Blue
ON	Green	Red	Green	Red	Blue
OFF	Red	Green	Green	Red	Blue

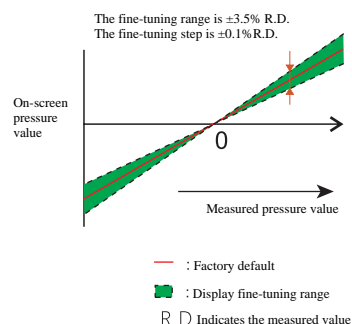
5 OPS quick setting

- Dual-screen display can directly set parameters, and the setting steps can be reduced by 3/4



6 screen display value fine-tuning function

- Eliminate tiny errors
- Adapt to special occasions



7 Air pressure unit can be switched

- Setable measurement unit: kPa, MPa, kgf/cm², bar, psi, inHg, mmHg



Note:
1. The economic series can display units directly on the screen.
2. The standard and communication series can be set to display the unit on the secondary screen, as shown on the right:



8 More intuitive letter display

- Use more complex character display, than traditional

The characters are more flexible, 26 English letters can be displayed intuitively, and you can operate without reading the manual!

Digital Display	1234567890
letter display	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

(注：经济系列产品字符显示方式略有不同，详见使用说明书)

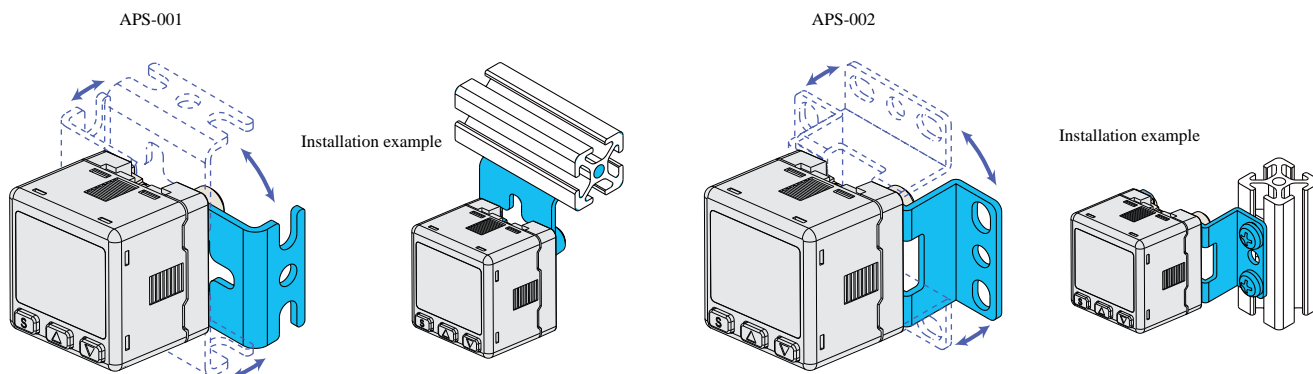
9

Convenient installation

Select the matching panel mounting bracket (PJ-L-01) [Note]*1 for assembly. The full set of panel mounting brackets includes three accessories such as fixing parts, clips and panel protective cover, which can be flexibly matched according to actual needs.

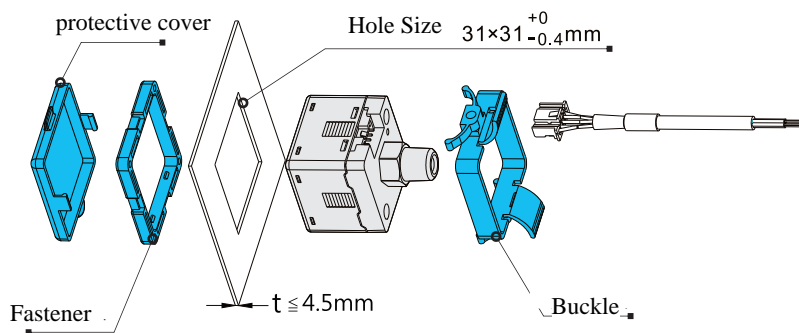
Installation method 1-two kinds of bracket installation

Select the matching mounting bracket (APS-001) for assembly, which can be installed in four directions, and can be installed tightly. The tightening torque is <0.5Nm, and the screw size is M3*6



Installation mode 2 panel installation

Select the matching panel mounting bracket (APS-00/20 1) for assembly. The full set of panel mounting brackets includes three accessories such as fixing parts, clips and panel protection cover, which can be flexibly matched according to actual needs



【注】

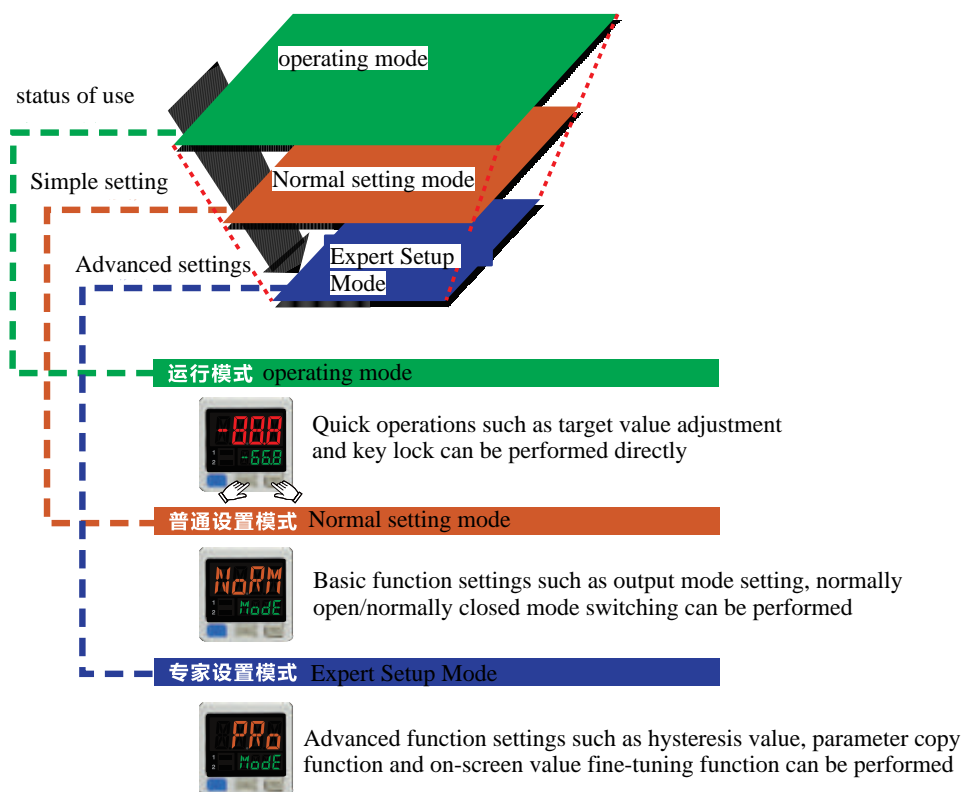
*1. 以上均为选配件，订购时需单独选配。



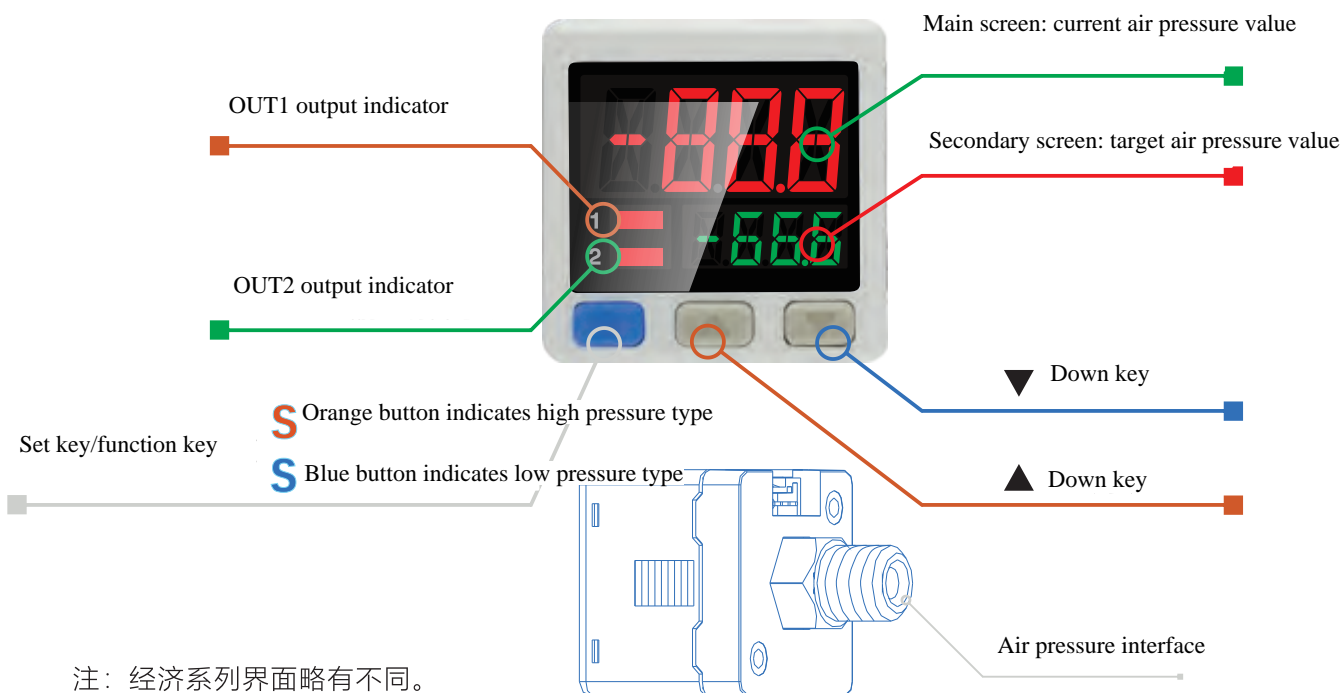
operating mode

The operation mode is divided into 3 levels according to the frequency of use

The operation mode of the daily use state is "running mode", the basic function is set to "normal setting mode", and the advanced (depth) function is set to "expert setting mode". According to the frequency of daily use, as shown in the figure below, from top to bottom, the frequency of use decreases in turn. This makes the use of the product easier and easier to understand.

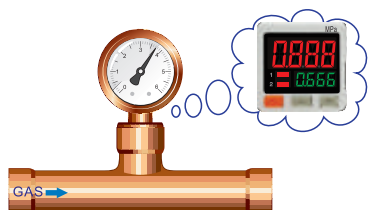


用户界面

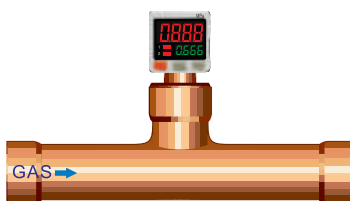


Application scenarios

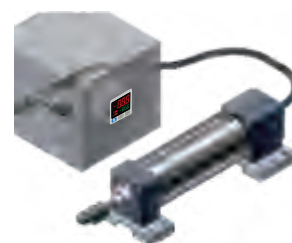
Replacing traditional mechanical barometers



Pipeline pressure monitoring



Equipment reference pressure confirmation



Adsorption and conveying equipment



Air tightness testing equipment

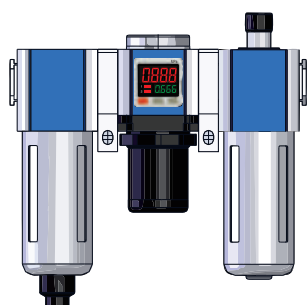
瓶子漏气检测



测漏仪



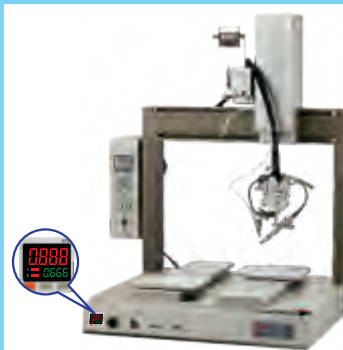
F.R.L triplets



Screen fit device



Dispensing equipment



SMT placement equipment

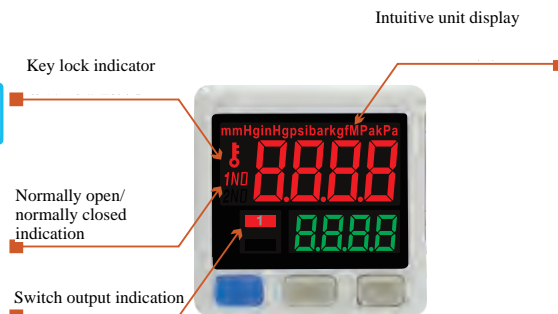


更多应用等您来发掘.....

Economic Series (APS-00)

Product advantages

- ★ Super cost-effective
- ★ New three-color dual-screen display,
- ★ Clearer, new unit display function, more intuitive
- ★ New shell structure, more space saving
- ★ Added button lock icon



Selection method

APS- **00** **1** **1N** **M**
 ① ② ③ ④

①	Product Series	00: 经济系列
②	Air pressure input range	1: -101.3~101.3kPa (低压型) 2: -0.101~1.000MPa (高压型)
③	Signal output type	1N: 1路NPN输出 1N+V: 1路NPN输出+1路模拟电压输出 1P: 1路PNP输出 1P+V: 1路PNP输出+1路模拟电压输出
④	Air pressure interface type	M: 内M5 R: 外R1/8 G: 外G1/8 N: 外NPT1/8

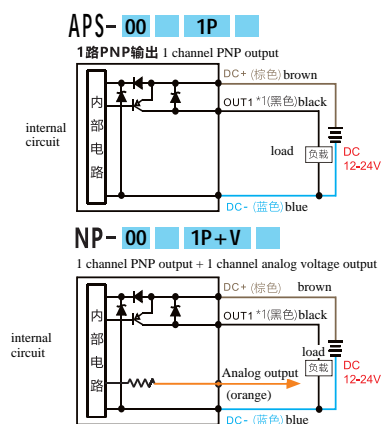
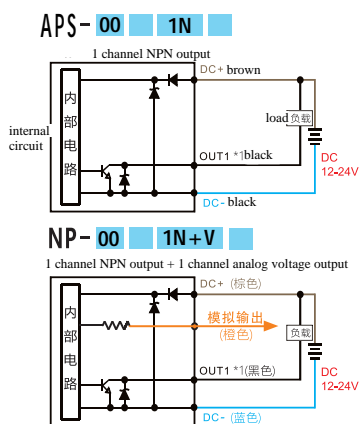
选配件型号 (单独选配)

- 1.L型金属安装支架: PJ-L-01
- 2.L型金属安装支架: PJ-Z-02
- 3.全套塑胶面板框架: PJ-Q-01

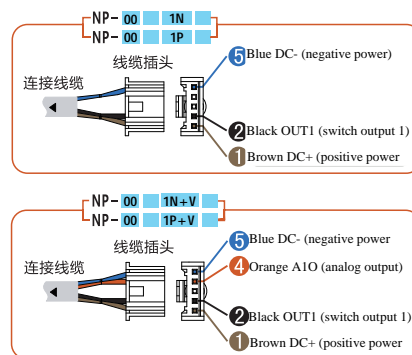
备注: 各配件的安装说明及图示请查阅本手册第2页

1. 备注: 气压接口螺纹标准R1/8为亚洲标准, 国内也称之为PT1/8, 而NPT1/8为北美标准, G1/8则为欧洲标准, 后两者国内较少使用。
2. 默认仅有内M5螺纹接口, 如选型“R”、“G”、“N”几种外牙接口类型, 则需额外配上定制的转接头实现。具体型号请联系我司业务。

circuit wiring diagram



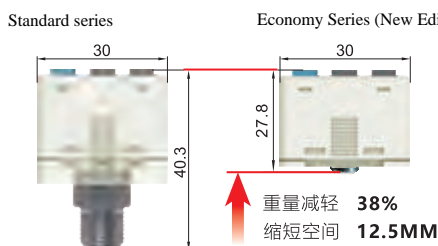
接线定义



Highlights Show

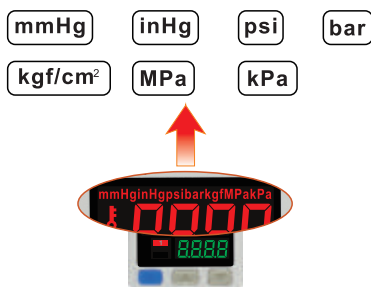
1 minimalist design

- Smaller and more refined!



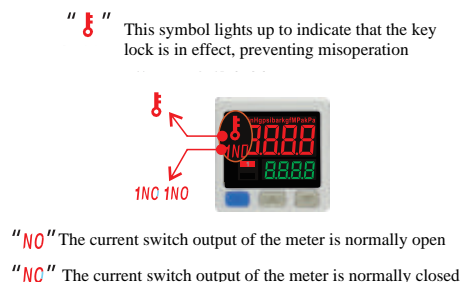
2 Unit display function

- Clear unit symbols for faster readings! More accurate!



3 More logos to show

- More user-friendly logos make it easier to use



Standard Series (APS-10/20)

Product advantages

- ★ More complete functions and higher performance
- ★ 2-channel switch + 1-channel analog output to meet the needs of various scenarios
- ★ Unique SUPERSPEED mode, the fastest response speed of 1ms can be used for high-speed placement machines and other equipment that require high response speed
- ★ Three-color dual-screen display, " " character display, easy to read information



选型办法

APS- 10 1 2NV R

① ② ③ ④

①	产品系列	10：标准系列 20：高防护标准系列 (IP65)
②	气压输入范围	1：-101.3~101.3kPa (低压型) 2：-0.101~1.000MPa (高压型)
③	信号输出类型	2N+V：2路NPN+1路模拟电压输出 2N+I：2路NPN+1路模拟电流输出 2P+V：2路PNP+1路模拟电压输出 2P+I：2路PNP+1路模拟电流输出
④	气压接口类型	R：外R1/8,内M5 G：外G1/8,内M5 N：外NPT1/8,内M5

选配件型号 (单独选配)

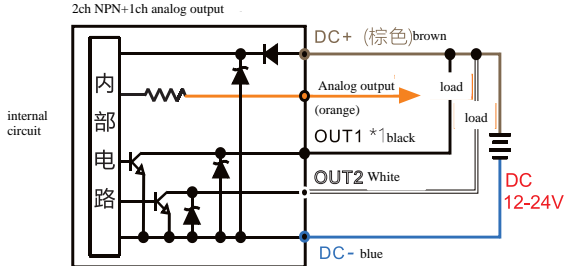
- 1.L型金属安装支架：PJ-L-01
- 2.L型金属安装支架：PJ-Z-02
- 3.全套塑胶面板框架：PJ-Q-01

备注：各配件的安装说明及图示请查阅本手册第2页

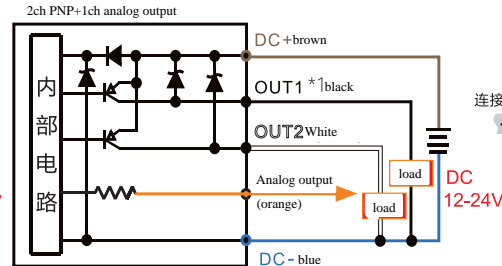
备注：气压接口螺纹标准R1/8为亚洲标准，国内也称之为PT1/8，而NPT1/8为北美标准，G1/8则为欧洲标准，后两者国内较少使用。

circuit wiring diagram

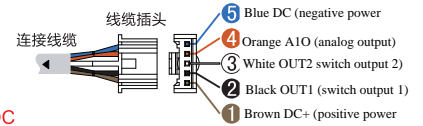
APS-10 2N*



APS-10 2P*



接线定义



【注】
 OUT1是开关量输出与参数复制功能复用的，请通过设置切换

Highlights Show

1 SUPERSPEED mode

The fastest switching response is only 1 millisecond!
 The fastest in the industry

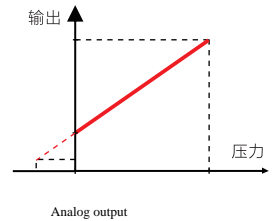
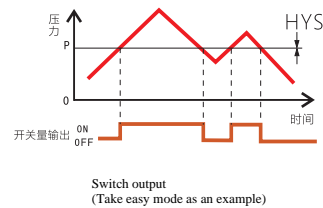
2 Supports three outputs at the same time

Two-way switch value + one-way analog quantity, to meet the needs of multiple occasions
 Standard components for more efficient purchasing and warehouse management

Press simultaneously in <Operation Mode> and until it is displayed as SUPS ON/OFF, you can turn on or off SUPERSPEED mode, as shown in the figure below



Low pressure type is the blue key here



Communication series (APS-15/25)

Product advantages

- ★ Support MODBUS standard protocol
- ★ Reserved way of traditional switch output
- ★ "Industry 4.0", the first choice for intelligent manufacturing
- ★ Supports remote reading and setting operations
- ★ Real-time monitoring, quick setup



选型办法

APS- **15** **1** **1NC** **R**
 ① ② ③ ④

①	产品系列	15：通讯系列 25：高防护通讯系列 (IP65)
②	气压输入范围	1: -101.3~101.3kPa (低压型) 2: -0.101~1.000MPa (高压型)
③	信号输出类型	1N+C: 1路NPN+1组RS485 1P+C: 1路PNP+1组RS485
④	气压接口类型	R: 外R1/8,内M5 G: 外G1/8,内M5 N: 外NPT1/8,内M5

备注：气压接口螺纹标准R1/8为亚洲标准，国内也称之为PT1/8，而NPT1/8为北美标准，G1/8则为欧洲标准，后两者国内较少使用。

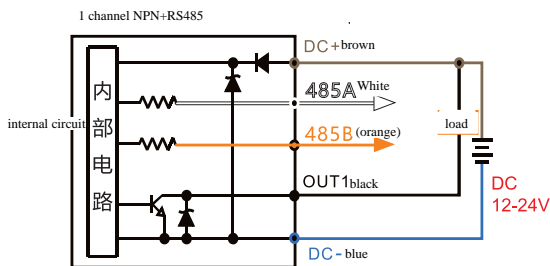
选配件型号 (单独选配)

- 1.L型金属安装支架：PJ-L-01
- 2.L型金属安装支架：PJ-Z-02
- 3.全套塑胶面板框架：PJ-Q-01

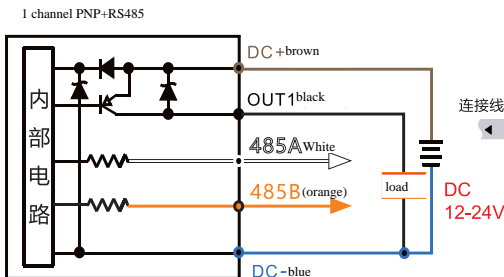
备注：各配件的安装说明及图示请查阅本手册第2页

circuit wiring diagram

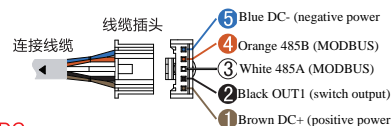
APS- **15** **1N+C**



APS- **15** **1P+C**



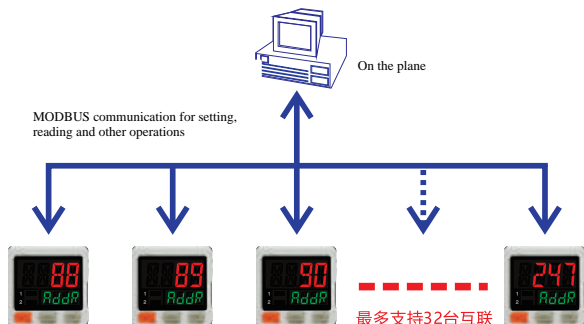
接线定义



Advantages

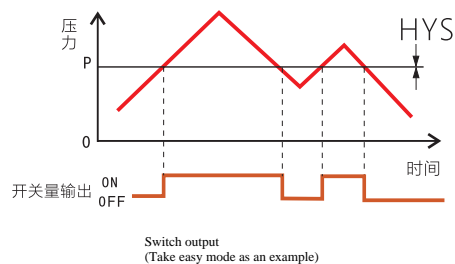
1 MODBUS communication support

- Standard RS485 communication protocol, easy to debug!
- Support up to 32 Unicoms, easily realize the industrial Internet!



2 Reserve one switch output

- Retain the traditional switch output for debugging and testing in a non-networked environment, taking into account the overall consideration



type		APS-002 (high pressure type)	APS-001 (low pressure type)	APS-00/20 2 (high pressure type)	APS-00/20 1 (low pressure type)	APS-15/25 2 (high pressure type)	APS-15/25 1 (low pressure type)	
Rated pressure range		-0.101~1.000MPa	-101.3~101.3kPa	-0.101~1.000MPa	-101.3 ㄱ 01.3kPa	-0.101~1.000MPa	-101.3~101.3kPa	
Set the pressing		-0.10E.000MPa	-101.0~101.0kPa	-0.100~1.000MPa	-101.0 ㄱ 01.0kPa	-0.100 ㄱ.000MPa	-101.0~101.0kPa	
Maximum withstand		1.5MPa	500kPa	1.5MPa	500kPa	1.5MPa	500kPa	
Applicable gas		Non-corrosive gas, non-flammable gas, in accordance with IS 08573-1: 2010 [7: 4: 4]						
Power supply		10% of 12-24VDC soil						
Consumption		Under 45mA (no load)						
Different pressing units	kPa	—	0.1	one	0.1	one	0.1	
	MPa	0.001	—	0.001	one	0.001	one	
	kgf/cm2	0.01	0.001	0.01	0.001	0.01	0.001	
	Explicit	0.01	0.001	0.01	0.001	0.01	0.001	
	resolution	0.1	0.01	0.1	0.01	0.1	0.01	
	under	mmHg	one	0.1	one	0.1	one	0.1
	inchHg	one	one	one	one	one	one	
Comparison output 【 Note 】 1		Open collector output PNP open collector output Maximum load current: 100mA maximum load current: 100mA Maximum supply voltage: 30VDC Maximum supply voltage: 24VDC						
Voltage analog output 【 Note 】 1		Output voltage: 1 ~ 5v 2.5% f.s. linearity: 1% f.s. output impedance: about 1KQ		Output voltage: 5 v 2.5% F.S. linearity: 1% F.S. 。 Output impedance: about 1KQ		without		
Current analog output [Note] 1		without		Output current: 4 ~ 20mA 2.5% F.S. Performance: 1% F.S. 。 Load: 50Q minimum		without		
MODBUS function 【 Note 】 2		without				have		
Display accuracy		±1%F.S. □digits (service temperature 25 10 ㄱ)						
repeatability		±0.2%F.S. ±2digits						
Reaction time		2.0 ms, 50 ms, 100 ms, 250 ms, 500 ms, 2000 ms optional		1ms [note] 3, 2.0ms, 50ms, 100ms,		2.0 ms, 50 ms, 100 ms, 250 ms, 500 ms, 2000 ms optional		
show		3-color (red, orange, yellow-green) display (sampling rate: 4 times z seconds)						
Temperature		Within 1% F.S., the comparative reference temperature is 25 C (within the range of 0 ~ 50 ㄱ)						
operational environment		0 ~ 50 C (no condensation or freezing); 35~85%RH (anhydrous dew)						
Save the environment		-10 ~ 50 C (no condensation or freezing); 35~85%RH (anhydrous dew)						



Shenzhen Xaori Technology Co.,Ltd

深圳市骁锐科技有限公司

the protection grades	IP40/IP65*(NP-20 and NP-25 series support IP65 level)	
Nozzle diameter	External thread: R1/8 (Asian standard, namely PT1/8),G1/8 (European standard), NPT1/8 (North American standard) Internal thread: M5	
weight	About 70g (including power	About 85g (including power cable)
attachment	1 power cable with terminal and 1 manual.	

Aalibab:<https://xaori.en.alibaba.com/?spm=a2700.7756200.0.0.7c9871d2r1CZI>

Tel: +86-0755-29898410 /+86-0755-29898460

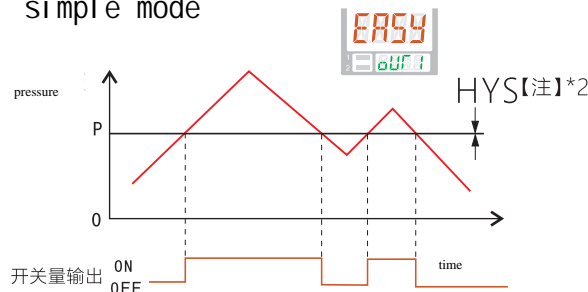
Email: ron@xaori.net

Address: Kunhong Building, No. 38, Xinhe Avenue, Xinqiao Community, Shajing Street,
Baoan District, Shenzhen, Guangdong, China

Switch output mode

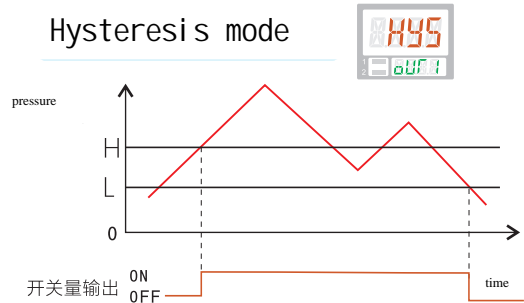
Switch output OUT1 and OUT2 【Note】*1 can choose three modes, namely "simple mode", "Hysteresis Mode" and "Window Mode".

simple mode



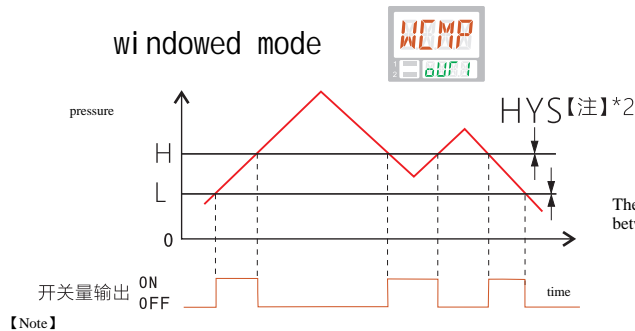
The air pressure setting value P, when the air pressure is greater than P, the output is ON, otherwise it is OFF

Hysteresis mode



The air pressure setting value is H/L. When the air pressure is greater than H, the output will continue to be ON, and the output will be OFF until the air pressure is less than L.

windowed mode



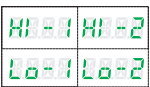
The air pressure setting value H/L, the output is ON only when the air pressure value is between L and H, otherwise the output is OFF

【Note】

*1. In simple mode, the secondary screen corresponds to

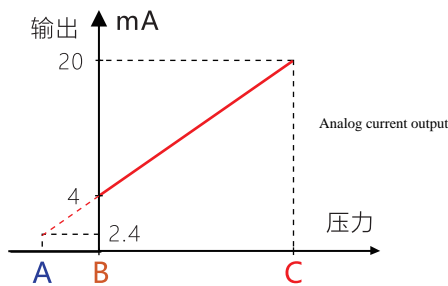
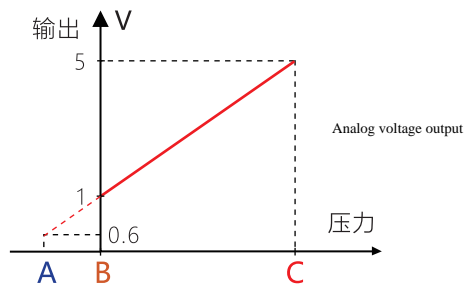


In other modes, the secondary screen displays accordingly:



*2.HYS is the hysteresis value, its size can be changed in <Expert Setting Mode>

Analog output

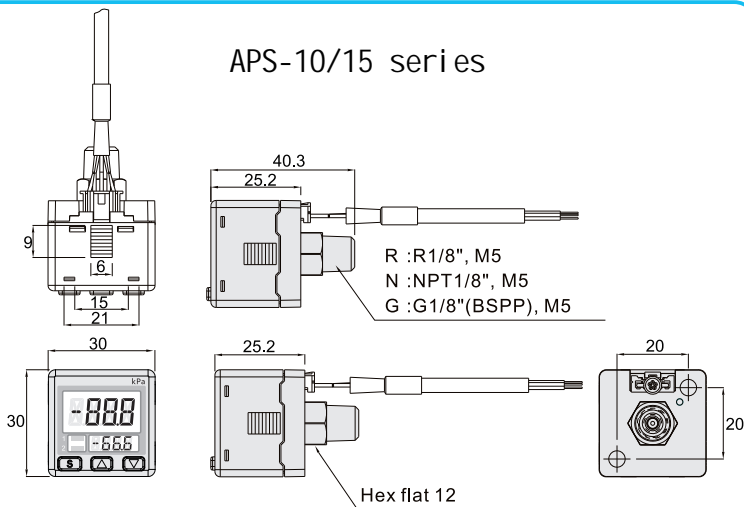


Air pressure range	Rated pressure range	A	B	C
high pressure	-0.1~1.0MPa	-0.1MPa	0MPa	1.0MPa
low pressure	-101.3kPa~101.3kPa	—	-101.3kPa	101.3kPa

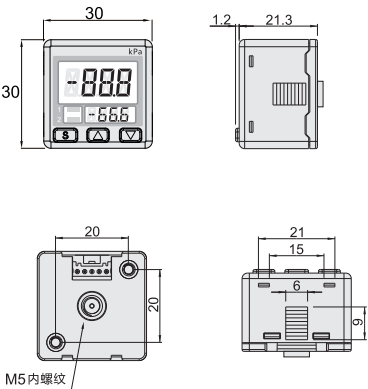
Dimensions unit: mm

Body size drawing

APS-10/15 series



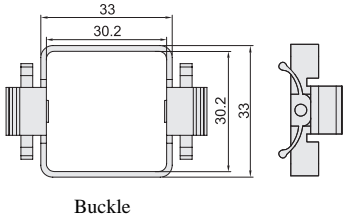
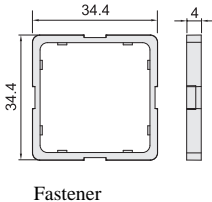
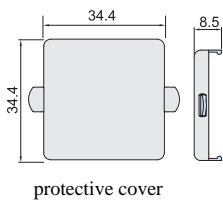
APS-00 series



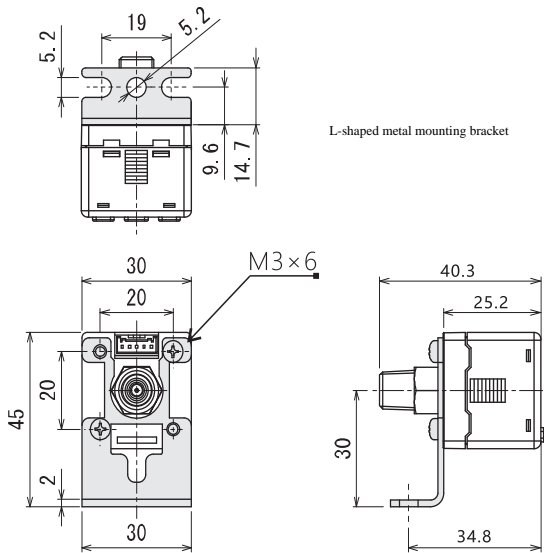
Remarks The dimension drawing of APS20/25 series (IP65 protection grade) is not shown, please contact our company if necessary.

Dimensions of optional accessories

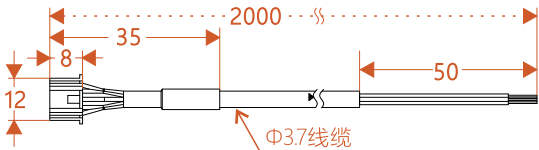
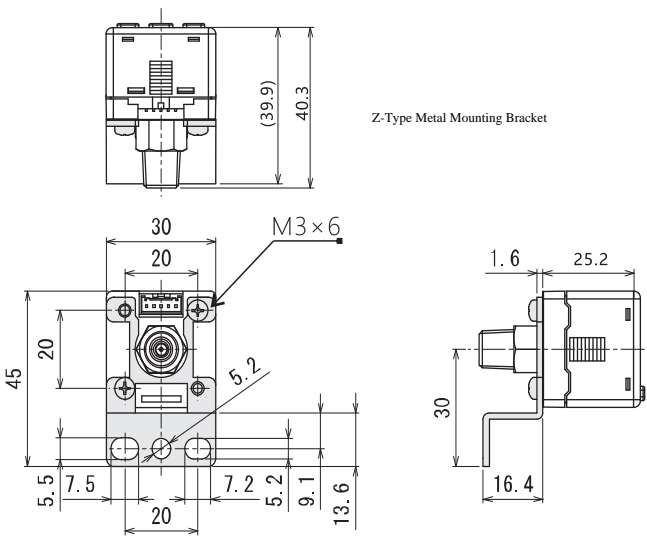
Panel Mounting Brackets (each set includes the following three pieces)



L-shaped metal mounting bracket



Z-Type Metal Mounting Bracket



备注：其他规格为非标准品，如有需要请与我司联系