

数字式压力开关

使用说明书

(HPC-1系列)



使用前请认真阅读本说明书并确保掌握产品性能及使用方法，并请妥善保存本说明书供日后使用

产品使用安全指引

以下说明的注意事项是为了确保您能安全、正确的使用本产品，预先防止对您或他人或相关设备造成危害和损失。相关注意事项中，按照危害和损伤的大小及紧急程度分为[注意][警告][危险]三个等级。任何等级事项都是与安全相关的重要内容，这些内容也请务必遵守。未涉及的相关事项，请遵照相关地区法规、行业或企业标准等。

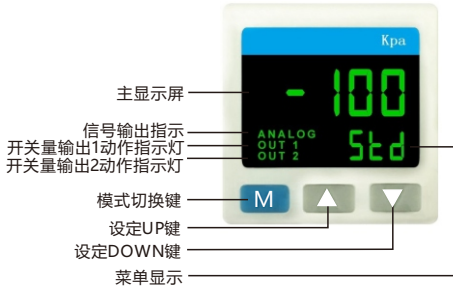
- 注意：**误操作时，有人员受伤或物品破损的风险
- 警告：**误操作时，有人员受到重大伤害甚至死亡的风险
- 危险：**在紧急的危险状态下，如不回避会有人员受到重大伤害甚至死亡的风险

● 操作者/使用者

- 本使用说明书面向对气动元件及相关设备或装置的组装、操作、维修保养具有足够知识和经验的人员
- 组装、操作、维修保养的实施，也仅限于此类人员
- 请在充分阅读本使用说明书并理解其内容的基础上对本产品或相关设备实施组装、操作、维修保养

产品概述

产品部件名称



- 按钮（上）：**上翻页或增加的设定值。进入菜单查看设置时使用。
- 按钮（下）：**下翻页或减少的设定值。进入菜单查看设置时使用。
- M 设置按钮：**各模式菜单切换及确定设定值时使用。

新一代微型压力传感器是集检测、显示、控制于一体的产品，默认两路开关量（NPN或PNP）还可以选择带模拟信号输出（0-5V，0-10V，4-20mA），不但可将气体压力值通过LCD以数值直观显示，而且可以将压力值以线性模拟量的方式传送到上位机。用户更可以定义两路开关量动作来达到控制的目的，外型小巧，功能丰富。

行业应用：

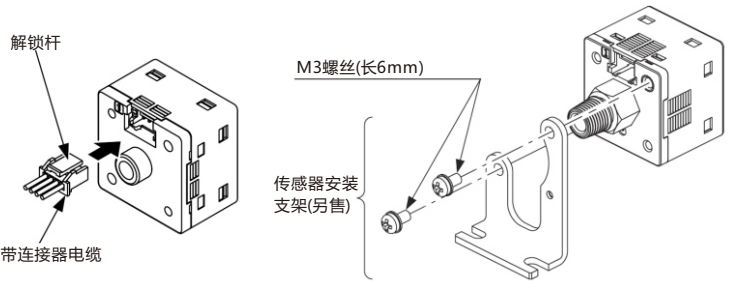
广告设备、IC检测设备、气动冲床、包装机械、玻璃机械、真空度检测设备、点胶机、工厂气源测量等。

技术参数

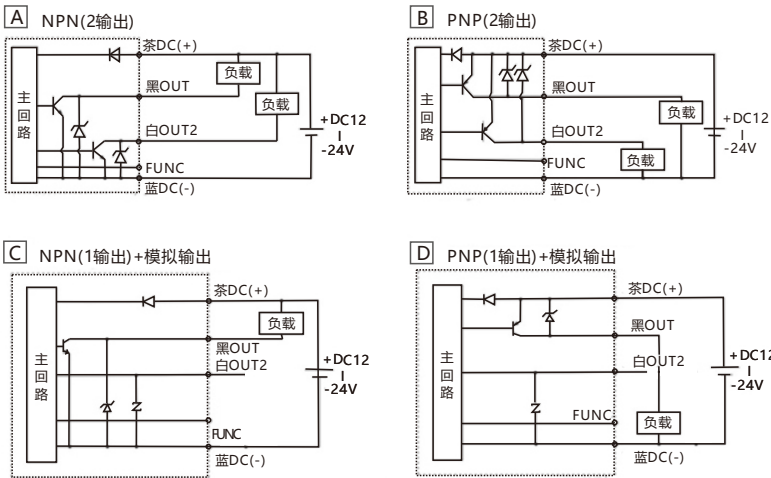
量程选择	(-100-100KPa) / (-0.1-1MPa)
电源	12-24V DC
输出信号	2路NPN或PNP（标配）
	可选4-20mA；0-5V；0-10V
负载能力	< 100mA
精度	优于1%FS
显示方式	4位LCD+双色背光+3位半辅助显示
压力接口	G1/8外螺纹/M5内螺纹
保护等级	IP40
工作温度	-20-65℃
工作湿度	< 90%RH
使用介质	干燥气体

接线定义

接线颜色	BROWN	BLACK	WHITE	BLUE
输出方式				
双路PNP输出	24+	OUT1	OUT2	24-
双路NPN输出	24+	OUT1	OUT2	24-
一路NPN+模拟量	24+	OUT1	模拟量	24-
一路PNP+模拟量	24+	OUT1	模拟量	24-



接线线路图



操作说明

1、快速查看报警设置：通电后，直接按 **▽** 正向查看报警设置；**△** 反向查看报警设置。

2、归零设置：同时按 **△** **▽** 归零开始，放开按键归零结束。

3、设定报警延时时间，长按M输入0100，在二级操作设置，查找菜单 **SPd** 设置输出延迟报警时间。

快速查看报警设置

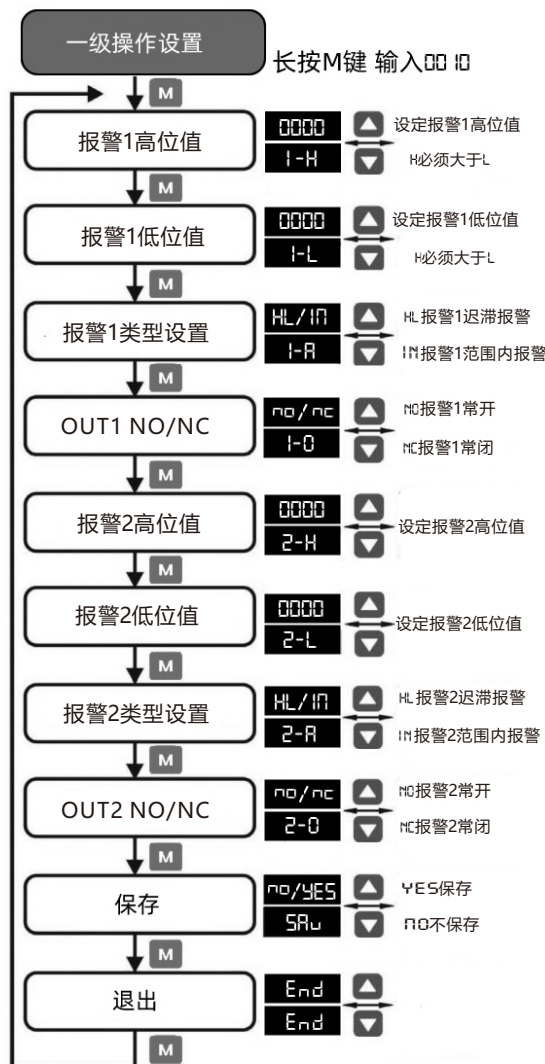
▽ 查看报警设置（正向）

△ 查看报警设置（反向）

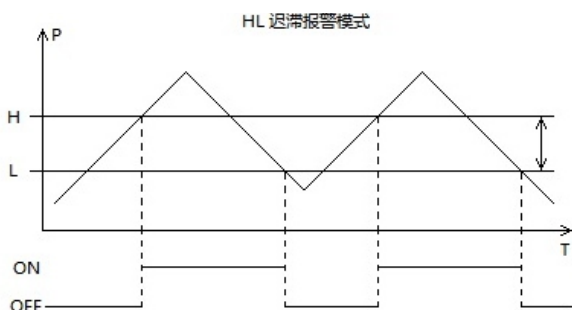
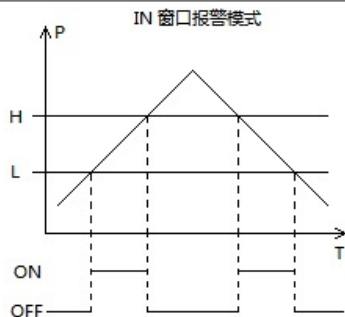
0000	▲	
1-H	▼	报警1高位值
0000	▲	
1-L	▼	报警1低位值
HL/IN	▲	报警1类型设置
1-R	▼	HL报警1迟滞报警
		IN报警1范围内报警
NO/NC	▲	OUT1 NO/NC
1-0	▼	NO报警1常开
		NC报警1常闭
0000	▲	
2-H	▼	报警2高位值
0000	▲	
2-L	▼	报警2低位值
HL/IN	▲	报警2类型设置
2-R	▼	HL报警2迟滞报警
		IN报警2范围内报警
NO/NC	▲	OUT2 NO/NC
2-0	▼	NO报警2常开
		NC报警2常闭

操作设置

M 菜单/确定 **△** 数字/上一页菜单 **▽** 移位/下一页菜单



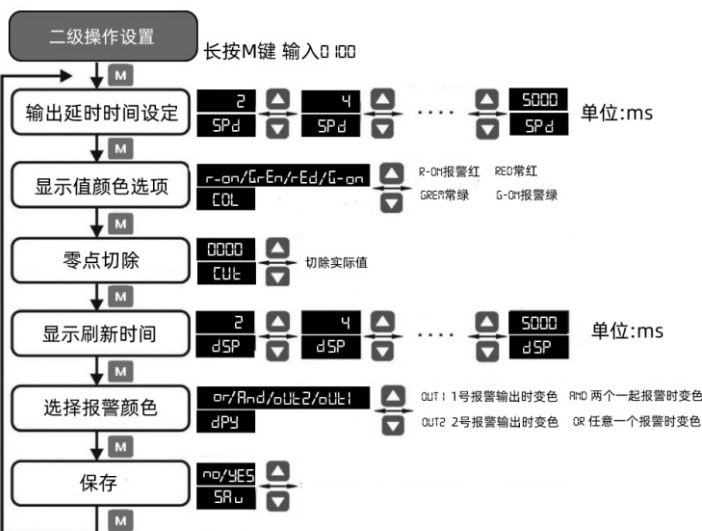
窗口报警/迟滞报警模式



注：(H和L)代表(1-H和1-L)或(2-H和2-L)

ON表示压力值在报警状态，此时屏幕显示OUT1或OUT2.

OFF表示压力值在非报警状态，此时屏幕无报警显示。



规格及详细尺寸

请咨询经销商或供应商索取产品详细规格书及功能手册。

修订记录：P/N:0755-000088-00 Version: 3.0

Digital Pressure Switch

Operation Manual

(HPC-1 Series)



Please read this manual carefully before operating this product and make sure you have understand its capability limitations, Please keep this manual handy for future reference.

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution", "Warning" or "Danger". They are all important notes for safety and must be followed. Teams without mentioned shall according to the local, international standards, company standards and other safety regulations.

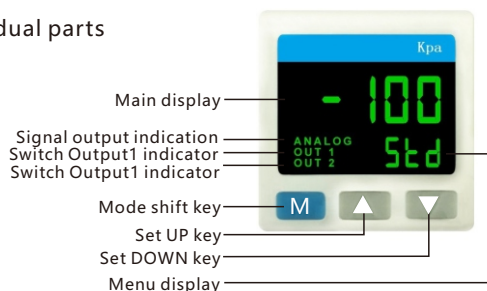
- Caution:** Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
- Warning:** Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
- Danger:** Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Operator/User

- This operation manual is intended for those who have knowledge of machinery using pneumatic equipment, and have sufficient knowledge of assembly, operation and maintenance of such equipment.
- Only those persons are allowed to perform assembly, operation and maintenance.
- Read and understand this operation manual carefully before assembling, operating or providing maintenance to the product.

Product description

Names of individual parts



- Up button (Up) :** Scroll up or increase the set value. Use when entering the menu to view settings.
- Down button (Down) :** Page down or reduced set point. Use when entering the menu to view settings.
- M button (Settings button) :** Used when each mode menu is switched and the set value is determined.

The new generation of Smart Pressure Switch is a product that integrates detection, display and control. The default two-way relay (NPN or PNP) are optional. And analog signal (0-5V, 0-10V, 4-20mA) can be selected too. It can not only visualize the gas pressure value through LCD, but also transmit the pressure value to the machine in a linear analog way. Users can define two switch action to achieve the purpose of control, smart appearance, rich functions.

Application:

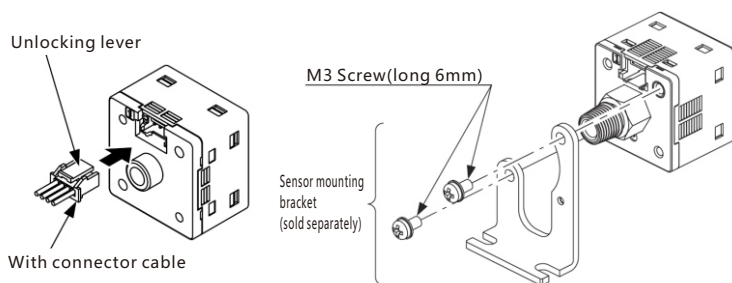
Advertising equipment, IC testing equipment, pneumatic punch, packaging machinery and so on.

Parameter

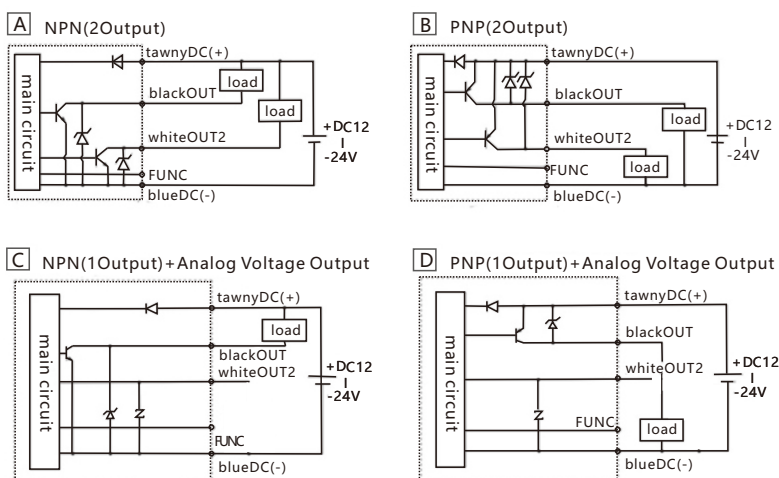
Range	(-100-100KPa) / (-0.1-1MPa)
Power Supply	12-24V DC
Output Signal	2-way NPN or PNP (standard) 4-20mA; 0-5V ; 0-10V optional
Overload	< 100mA
Accuracy	< 1%FS
Display type	4LCD+dual backlight+3bit1/2 auxiliary display
Pressure port	G1/8 male/M5 female
Protect Grade	IP40
Working temp	-20-65°C
Working Humidity	< 90%RH
Medium	Dry air

Wiring Definition

Wiring color	BROWN	BLACK	WHITE	BLUE
Output type				
Dual PNP output	24+	OUT1	OUT2	24-
Dual NPN output	24+	OUT1	OUT2	24-
1-wayNPN+Analog	24+	OUT1	Analog	24-
1-wayPNP+Analog	24+	OUT1	Analog	24-



Wiring Diagram



Instructions

- 1、Quick view alarm settings: After power on, press to view the alarm settings, press to reverse view the alarm settings.
- 2、RZ setting: press at the same time, start at RZ, release button and end at RZ.
- 3、Set the alarm delay time, press M to input 0100 for a long time, set second level operation, look up the menu , set the output delay alarm time.

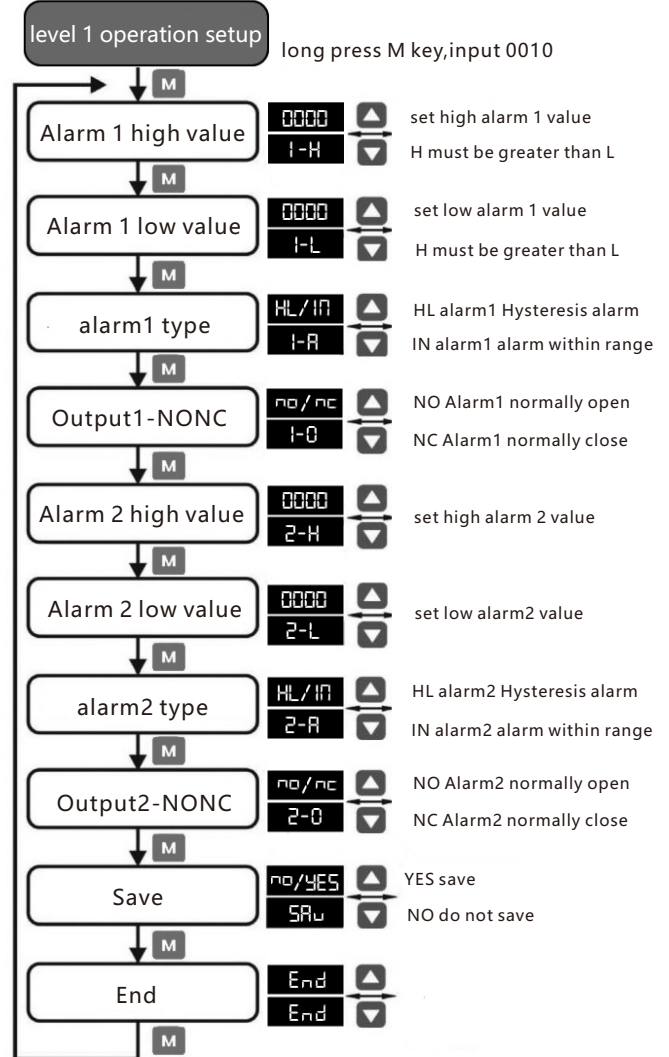
Quick view alarm setup

View alarm setup (forward) View alarm setup (reverse)

		Alarm 1 high value
		Alarm 1 low value
		alarm1 type
		HL alarm1 Hysteresis alarm IN alarm1 alarm within range
		Output1-NO/NC
		NO Alarm1 normally open NC Alarm1 normally close
		Alarm 2 high value
		Alarm 2 low value
		alarm2 type
		HL alarm2 Hysteresis alarm IN alarm2 alarm within range
		Output2-NO/NC
		NO Alarm2 normally open NC Alarm2 normally close

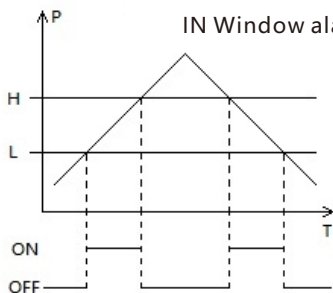
Operation setup

Menu/enter Number/previous menu Shift/next menu

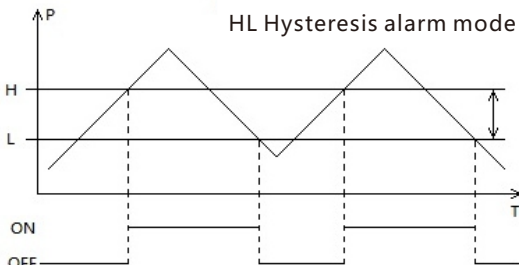


Window alarm/Hysteresis alarm mode

IN Window alarm mode

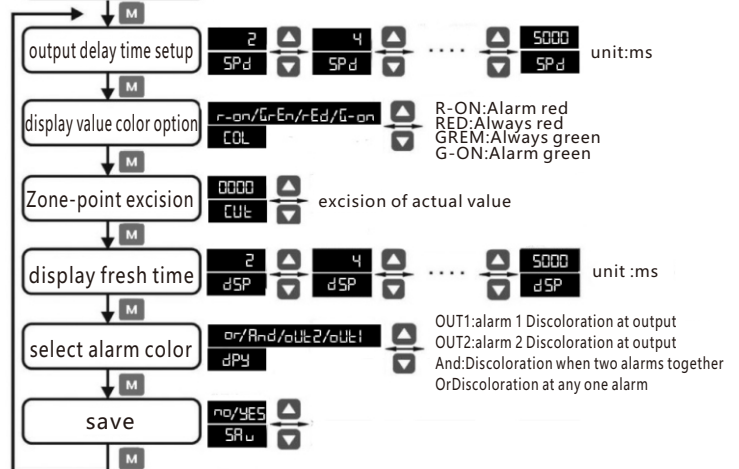


HL Hysteresis alarm mode



Note: (H and L) representative (1-H and 1-L) or (2-H and 2-L)
ON indicates that the pressure value is in the alarm state, and the screen displays OUT1 or OUT2.
OFF means that the pressure value is in the non-alarm state, and there is no alarm display on the screen.

level 2 operation setup long press M key,input 0100



Specifications and Dimension

Refer to the product catalogue or contact supplier for more support.

Revision record: P/N:0755-000088-00 Version: 3.0