

## HPM530 Compact differential pressure switch



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## Overview

HPM530 compact differential pressure switch adopts silicon piezoresistive differential pressure core, special signal conditioning circuit processing, on-site display, and can output one analog quantity and two electronic switch quantities. The pressure interface is a stainless-steel threaded connection, which can be directly installed on the measuring pipeline or connected through a pressure pipe. This product is widely used in differential pressure, liquid level, flow measurement and control in process control, aviation, aerospace, automobile, medical equipment, HVAC and other fields.

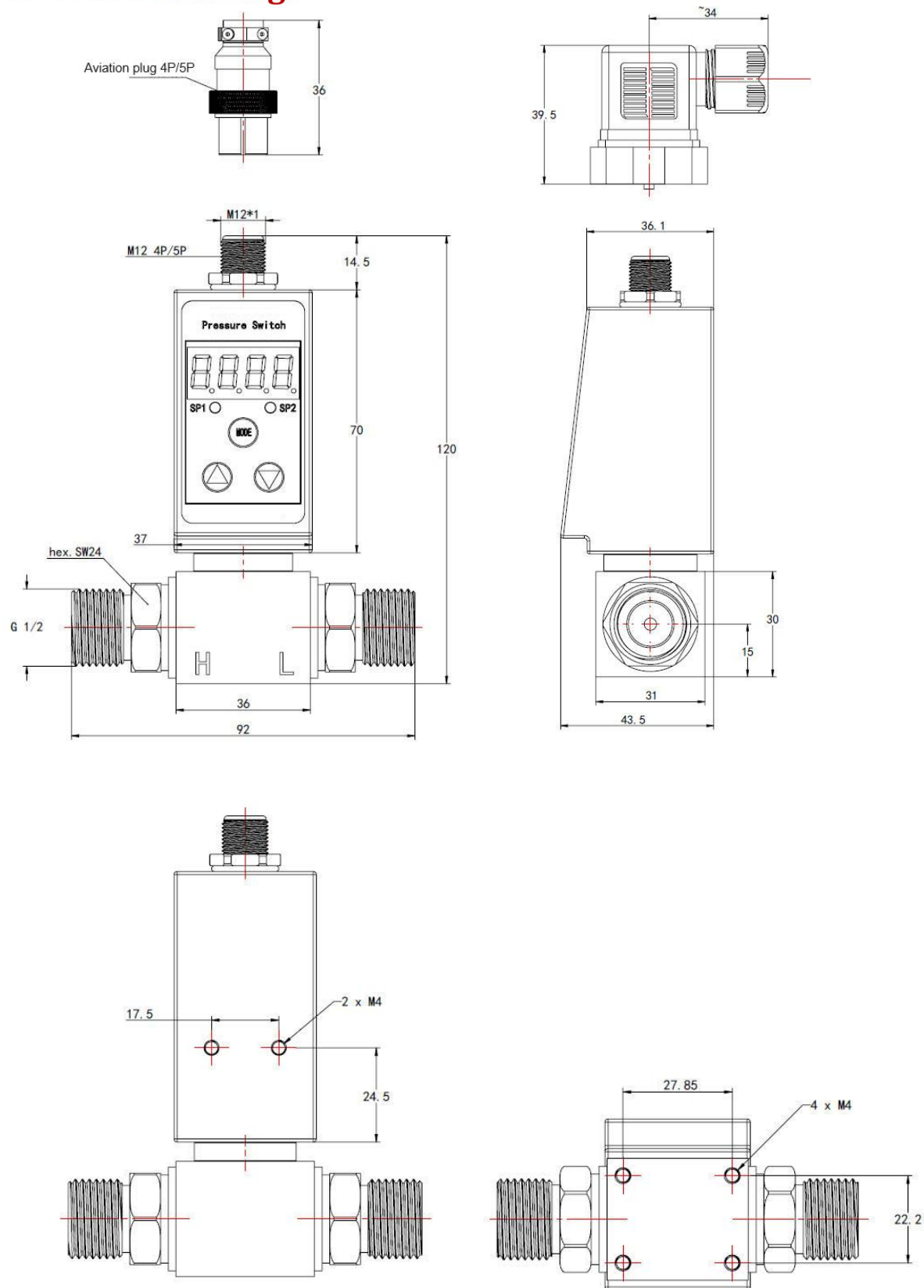
## Features

- ◆ 316L stainless steel isolation diaphragm structure
- ◆ Compact design, easy to install
- ◆ 4-digit LED on-site display
- ◆ Preset pressure switch point and delayed switching output
- ◆ Key adjustment and on-site setting of various parameters, easy to operate
- ◆ 2-way electronic switch output, load capacity 1.2A
- ◆ Analog output (4~20) mA

## Technical Parameters

Measuring Range	0~0.01...3.5MPa	Accuracy Grade	≤±0.5%FS
One-side overload	2 times of FS	Static Pressure	≤20MPa
Stability	±0.2%FS /year	Temperature Drift	±0.03%FS/°C
Display Mode	4-bit Nixie tube	Display Range	-1999~9999
Power Voltage	24VDC	load capacity	<24V 1.2A
Ingress Protection	IP65	Switch Type	PNP/NPN
Interface material	304 Stainless Steel	Medium Temperature	-25~80°C

## Structure Drawings



## Electrical Connection

	Relay Output	Aviation plug -10P
Power Supply	Red V+      Yellow GND	
Two relays	Blue NO1    Black COM1    Green OC1	Brown NO2    Purple COM2    Grey NC2
(4~20)mA	White mA+    Orange mA-	

PNP Output		NPN Output	
Hirschman	M12*1 -4P	M12*1 -5P	
1: VCC	1: VCC (Brown)	1: VCC (Brown)	
2: GND	2: SP2 (White)	2: SP2 (White)	
3:4~20mA	3: GND (Blue)	3: GND (Blue)	
-	4: SP1 (Black)	4: SP1 (Black)	
-	-	5:4~20mA (Grey)	

## Ordering Guide

Item No.	Type							
HPM530	Differential Pressure Switch							
	Pressure Range	Measuring Range						
	(0 ~ X)kPa	Fill out X directly						
		Code	Output Singnal					
		B1	(4 ~ 20)mA					
		B10	Transistor Out NPN					
		B11	Transistor Out PNP					
			Code	Process Connection				
			P1	M20×1.5				
			P3	G1/4				
			P4	G1/2				
				Code	Electrical Connection			
				C1	DIN43650			
	C3			Aviation connector				
	C5			M12×1				
					Code	Structure&Material		
					Diaphragm	Interface	Shell	
					M1	316L	Stainless steel	Cast Aluminium
					M1A	316L	316L	Cast Aluminium
					M2	Titanium	Titanium	Cast Aluminium
					M3	Tantalum	Customized	Cast Aluminium
					M4	Ha C	Customized	Cast Aluminium
					Code	Additional Functions		
		G	Gauge Pressure (Default)					
		Kn	Number of pressure control points, n=1 ~ 2					
	T	High temperature medium						
	W	Waterproof and breathable treatment						
HPM530	(0~400)kPa	B1 B11	P4	C2	M1	G K2 T		

### Tips:

1. When ordering products with pressure point control, please indicate the number of pressure points, the pressure value to be controlled, and whether the switch point is normally open or normally closed.
2. Output signal B10, B11 can only choose one, B1 can be selected together with B10 or B11.
3. For other special requirements, please contact us and indicate in the order.