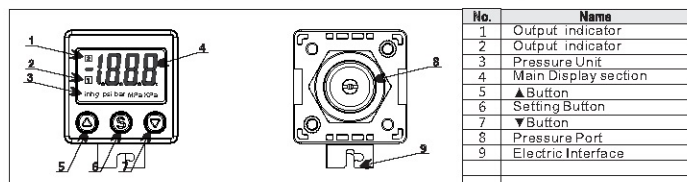




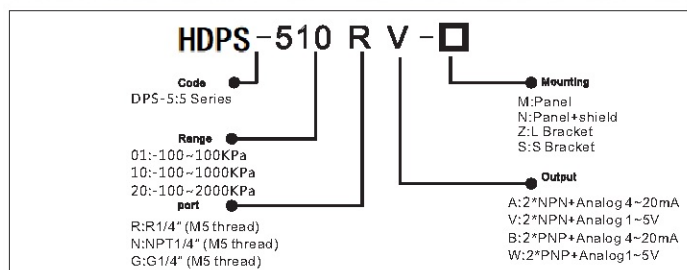
Panel



Specifications

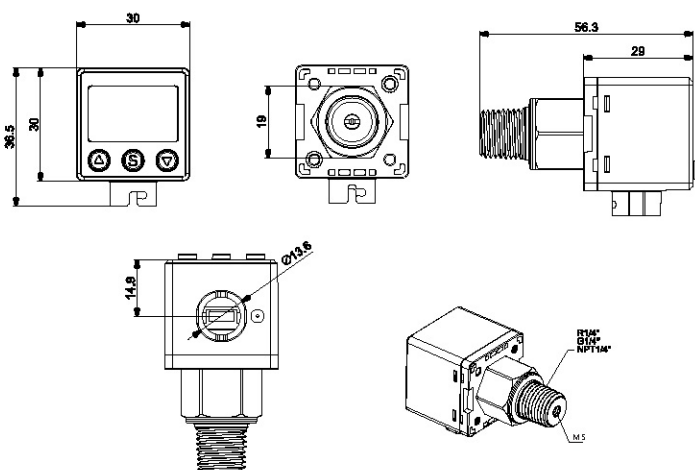
Model		HDP5-501	HDP5-510	HDP5-520
Pressure Measure	Range of measure	-100KPa~+100KPa	-0.1MPa~1MPa	-0.1MPa~2MPa
	Setting range	-100KPa~+100KPa	-0.1MPa~1MPa	-0.1MPa~2MPa
	Withstand pressure	300KPa	3MPa	
	Pressure type	The product is not suitable for media which corrodes SUS316L		
	Measure accuracy	±2%F.S.(Ambient temperature 25°C)		
	Temperature error	±3%F.S.(Temperature range 0~50°C)		
	Measure pattern	Easy mode Hysteresis mode Compare mode of upper and lower bounds		
	Port size	External R1/4,NPT1/4,G1/4 option,internal thread M5		
Display	Status display	4-digit measurement value,unit display,output status display		
	Display model	Adjustable backlight, 4 groups of display models		
	Voltage range	12~24VDC ±10%		
	power consumption	40mA MAX(non-load)		
Output signal	Transistor output	NPN open-collector output Output current:80mA MAX Voltage drop:≤1V	PNP open-collector output Output current:60mA MAX Voltage drop:≤1V	
	Analog output	Voltage output Signal amplitude:1~5V Load resistance:≥1KΩ	Current output Signal amplitude:4~20mA Load resistance:≤400Ω	
	Response time	Adjustable:2.5ms,20ms,100ms,500ms,1000ms,2000ms		
	Short-circuit protection	Yes		
Environmental resistance	IP level	IP65		
	Ambient temperature	Operating temperature 0~50°C,storage temperature -20~60°C		
	Ambient humidity	Operating humidity35~80%RH		
	Insulation voltage	1000VAC 1min		
	Insulation resistance	≥50MΩ(500VDC)		
	Shock	Max 100ms/2,3 times each in 6 directions of X,Y and Z		
	vibration	Amplitude 1.5mm,10HZ~500HZ,2 hours each direction of X,Y and Z		

HDPS-5

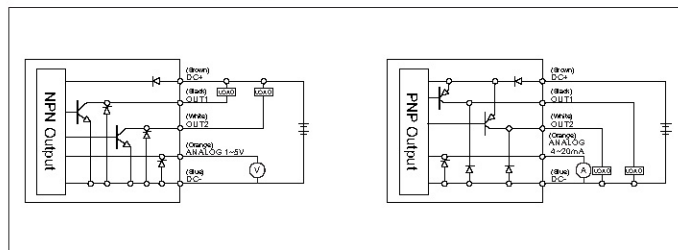
**Ordering code**

Mounting dimensions (unit:mm)

● Overall dimensions & connection port

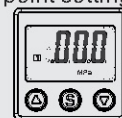


Output circuit wiring diagrams



Quick setting

- Zero point setting



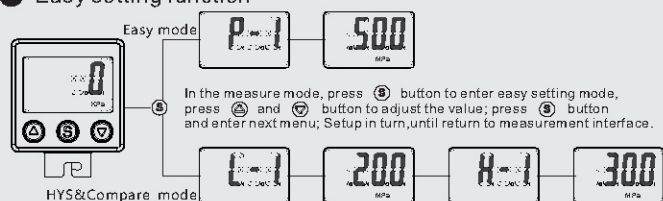
In the measure mode, press + button at the same time, until display "0", release the button;
PS: reset range: $\pm 10\%$ F.S.

- Key lock and unlock



Lock: in the measure mode, press
 +  +  button at the same time until
 "LOCK ON" shown, release the buttons;
 Unlock: in the measure mode, press
 +  +  button at the same time until
 "LOCK OFF" shown, release the buttons.

- Easy setting function

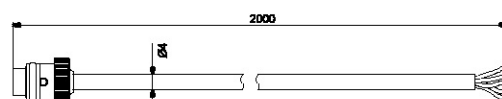


DIGITAL PRESSURE SWITCH

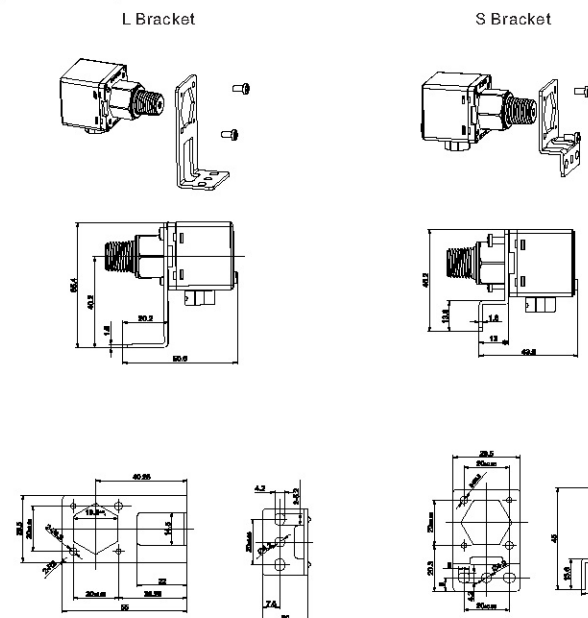


Mounting dimensions (unit:mm)

● Wire dimensions



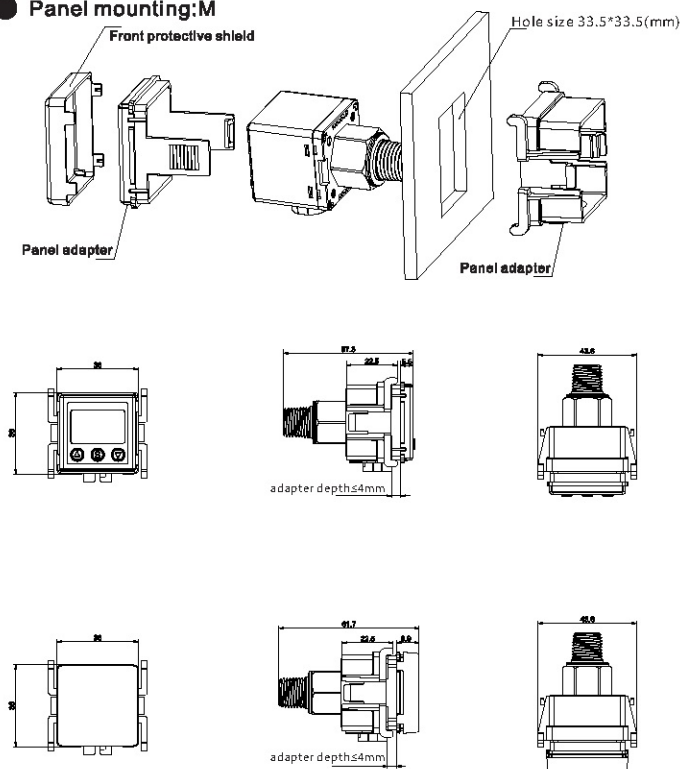
● Mounting bracket





Mounting dimensions (unit:mm)

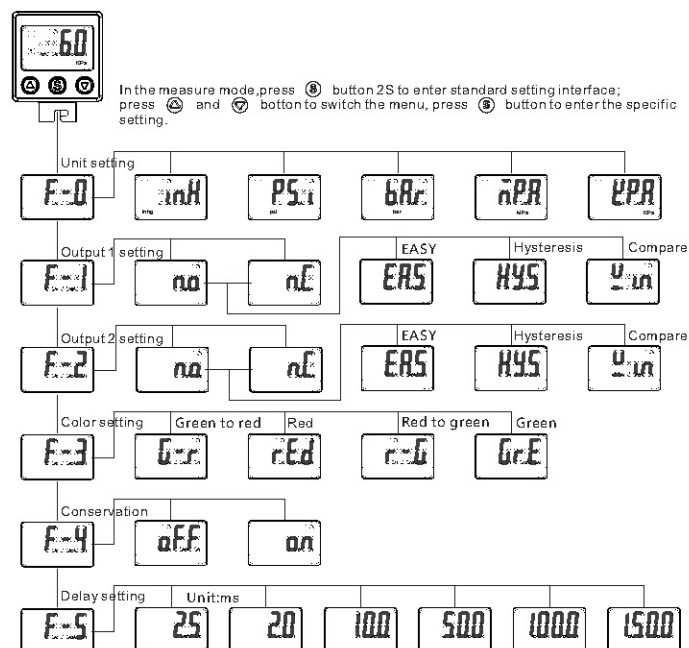
Panel mounting:M



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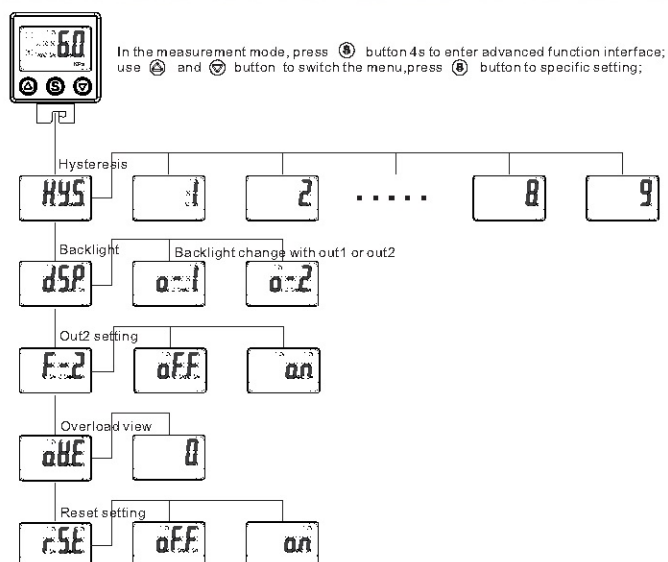
Operation instruction (Standard setting)



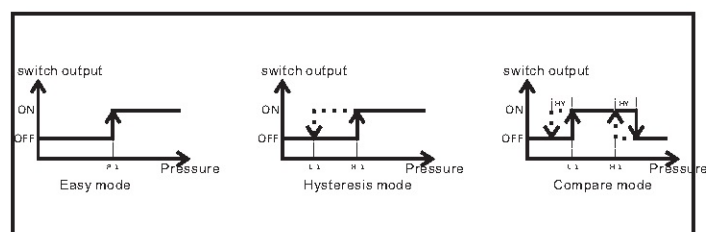
6



Advanced setting mode



Output function diagram



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Error code description

Error code	Problem	Solution
E-1	Exceed zero point reset range	Zero point reset range: +/-10%F.S do not over value setting
E-2	Large output current	Please check the black wire short circuit, over load or others
E-3	Large output current	Please check the white wire short circuit, over load or others
E-5	Storage data error	Chip error need maintain
HHH	Exceed pressure measure	adjust the pressure to the range

Pressure unit conversion table

From	To	Pa	kPa	MPa	kgf/cm ²	mmHg	psi	bar	inHg
1Pa		1	0.001	0.000001					
1kPa		1000	1	0.001	0.010197	7.500616	0.145038	0.01	0.2953
1MPa		1000000	1000	1	10.197	7500.616	145.038	10	295.2998
1kgf/cm ²		98066.5	98.0665	0.098066	1	735.559	14.2233	0.980665	28.95979
1mmHg		133.32	0.13332	0.000133	0.001359	1	0.019336	0.001333	0.03937
1psi		6895	6.895	0.006895	0.07031	51.7157	1	0.06895	2.036074
1bar		100000	100	0.1	1.01972	750.062	14.5038	1	29.52998
1inHg		3386.388	3.386388	0.003386	0.034530	25.4	0.491141	0.033863	1



Caution

- 1.The product is not suitable for media which corrodes SUS316L.
- 2.Avoid to be used in high temperature and high humidity.
- 3.Before installation or removal, please make sure pressure source has been stopped, the output wire is disconnected with controller, to ensure safety.
- 4.When installation please use the part that meet the pressure connection port and sealing is good, to avoid measure error or gas leakage and other issues.
- 5.Before connecting to the power, make sure the wiring is correct, higher voltage input will damage the pressure switch

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