

**PREMIER QUALITY
GLOBAL REPUTATION**

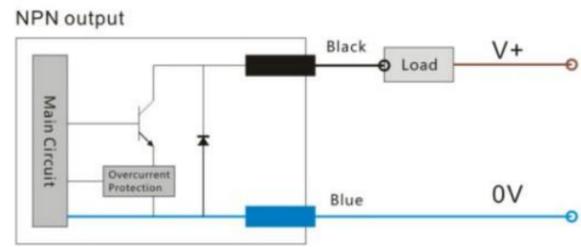
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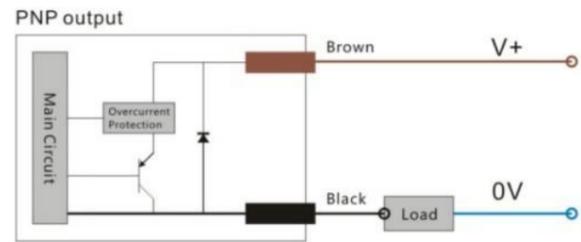
DPS Series Digital pressure switch

- LCD display
- Four display modes
- 2*NPN or 2*PNP output
- Double-row LCD display, can show 4-digit value

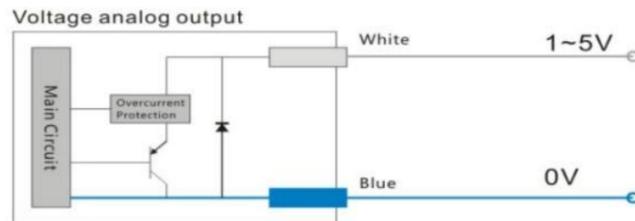




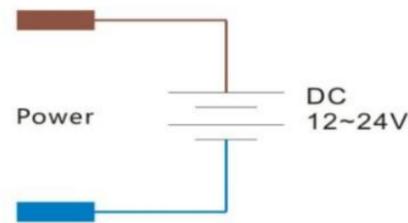
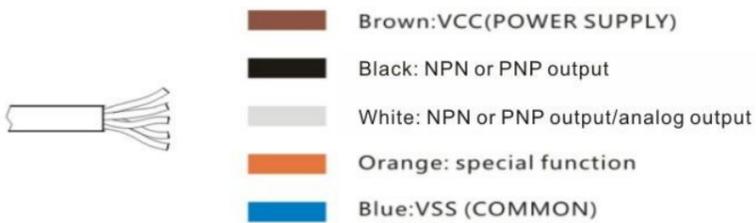
NPN OC circuit:
Low level output when the switch is on:
High resistance when the switch is off:



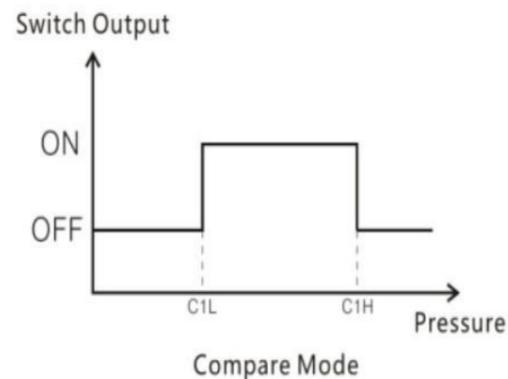
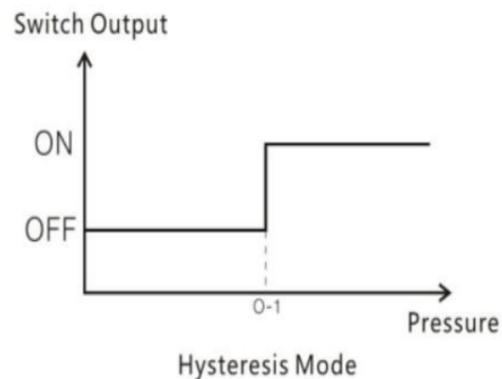
PNP OC circuit:
High level output when the switch is on
High resistance when the switch is off:



Analog voltage output
Full scale proportional output
Reference level 0V

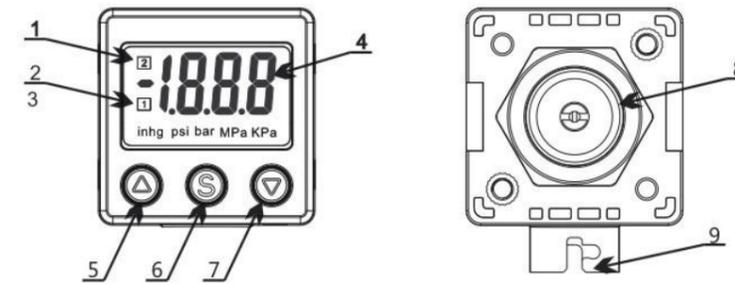


OUTPUT FUNCTION DIAGRAM



DPS-7 Series

PANEL

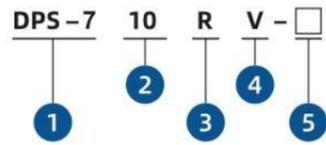


No	Name
1	Output indicator
2	Output indicator
3	Pressure unit
4	Main display section
5	Up button
6	Section button
7	Down button
8	Pressure port
9	Electric interface

SPECIFICATION

Model	DPS-701	DPS-702	DPS-710	
Pressure measure	Range Of Measure	-100KPa~100KPa	-100KPa~0KPa	-0.1MPa~1MPa
	Setting Range	-100KPa~100KPa	-100KPa~0KPa	-0.1MPa~1MPa
	Withstand Pressure	500KPa	500KPa	1.5MPa
	Pressure Type	Gauge pressure test		
	Measure Accuracy	≤±2%F.S.(ambient temperature 25°C)		
	Temperature Error	≤±3%F.S. (temperature range 0~ 50°C)		
Measure Pattern	Easy Mode			
	Hysteresis model			
	Window comparator mode			
Display	Status Display	LCD, 4-digit measurement value, unit display, output status display		
	Display Model	Adjustable backlight, 4 groups of display modes		
Input Power	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 :80mA MAX Voltage drop : ≤1V	
	Analog Output	Voltage output Signal amplitude:1~5V Load resistance ≥1KΩ	Current output Signal amplitude:4~20mA Load resistance ≤400KΩ	
	Response Time	Adjustable : 2.5ms、20ms、100ms、500ms、1000ms、1500ms		
	Short-circuit Protection	Yes		
Environmental Resistance	Ip Class	IP65		
	Ambient Temperature	Operating temperature 0~50°C ,storage temperature -20~60°C		
	Ambient Humidity	Operating humidity 35~ 80%RH		
	Insulation Voltage	1000VAC 1min		
	Insulation Resistance	≥50mΩ(500VDC)		
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z		
Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z			

ORDERING CODE



1. DPS-7 Series IP65 Waterproof

2. Range
 10: -100~1000kpa
 01: -100~100kpa
 02: -100~0kpa

3. Port
 R: R1/8 (M5 female thread)
 N: NPT1/8 (M5 female thread)
 G: G1/8 (M5 female thread)

4. Output
 V: 2*NPN+Analog 1~5V
 W: 2*PNP+Analog 1~5V
 A: 2*NPN+Analog 4~20mA
 B: 2*PNP+Analog 4~20mA

5. Mounting
 M: Panel
 N: Panel+shield
 Z: L bracket
 S: S bracket

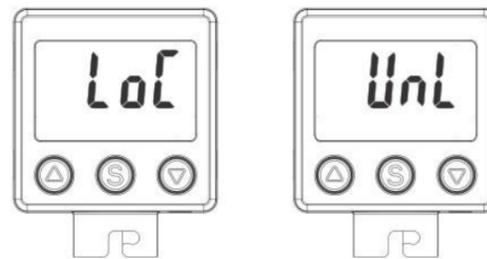
QUICK SETTING

Zero point setting



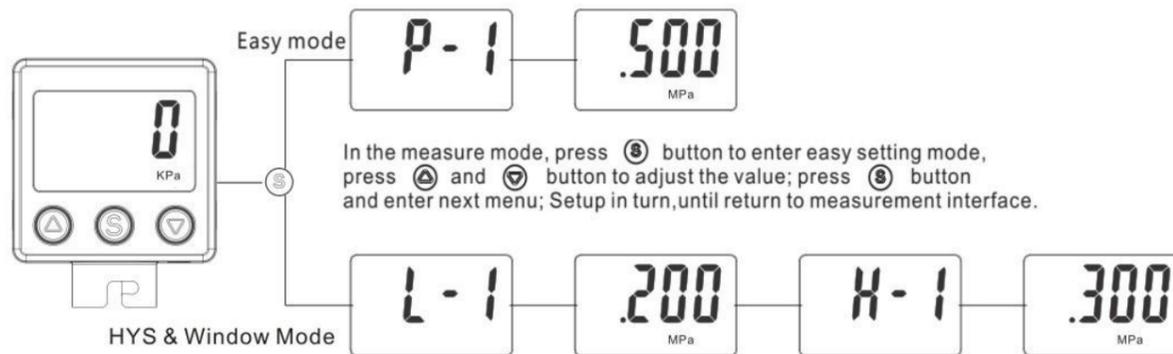
In the measure mode, press Δ + ∇ button at the same time, until display "0", release the button;
 PS: reset range: +/-10%F.S.

key lock and unlock



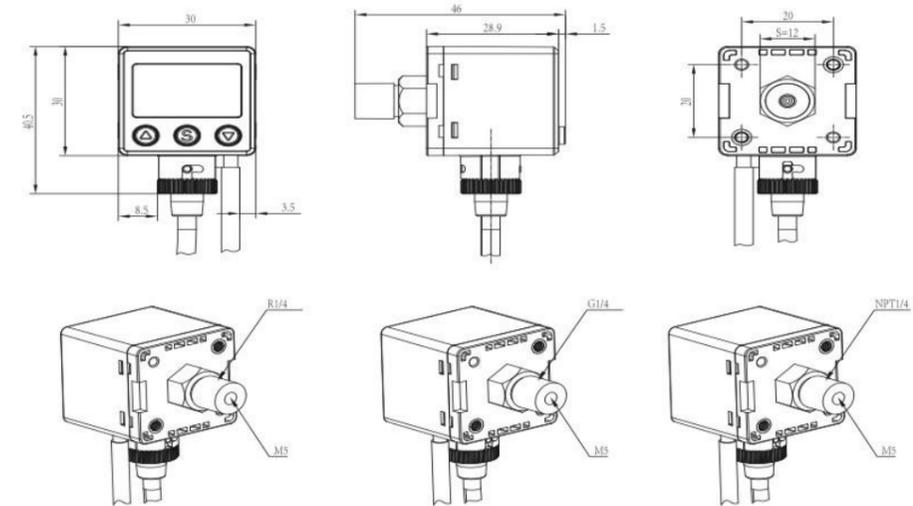
Lock: in the measure mode, press Δ + S + ∇ button at the same time until "LOC" shown, release the buttons;
 Unlock: in the measure mode, press Δ + S + ∇ button at the same time until "UNL" shown, release the buttons.

Easy setup

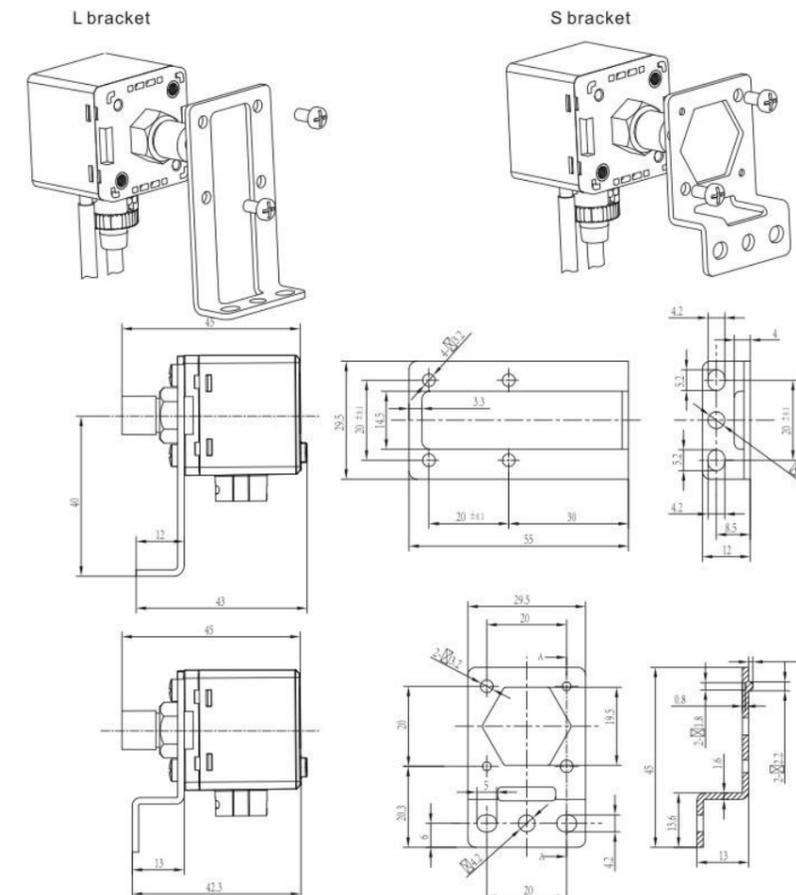


MOUNTING DIMENSIONS(mm)

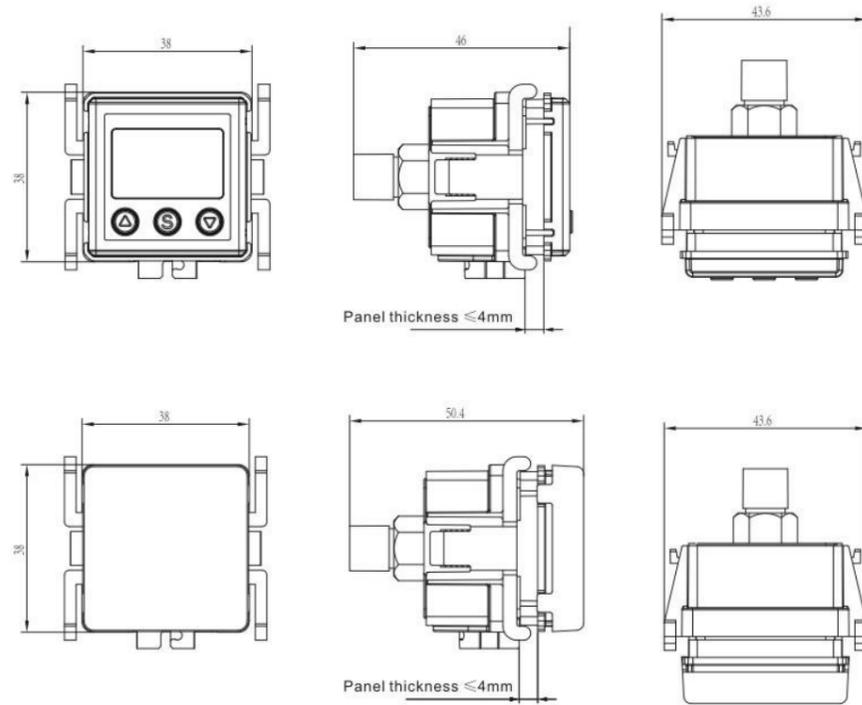
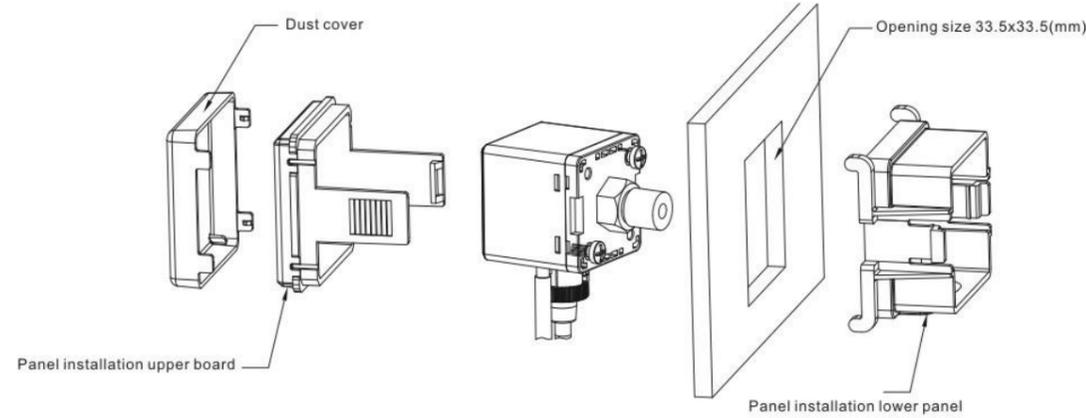
Overall dimension & connection port



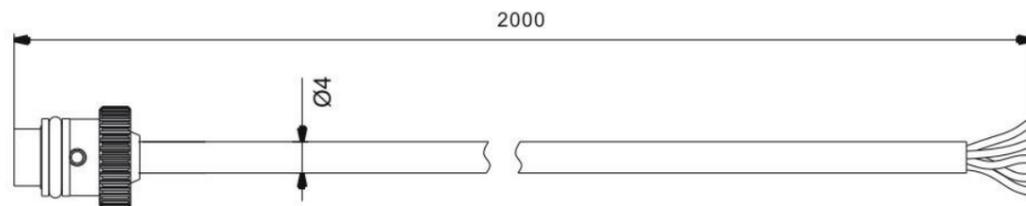
Mounting bracket



Panel bracket

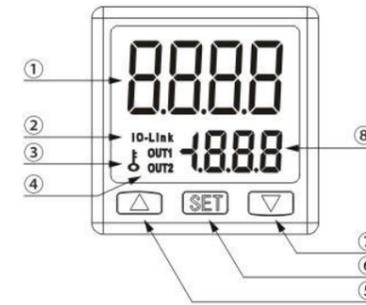


Wire size



DPS-8 Series IO-Link

PANEL

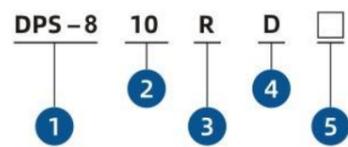


No	Name
1	Main display area (pressure/function menu)
2	Communication indication
3	Frequency lock indicator
4	Switch output indicator
5	Up adjustment button
6	Set function keys
7	Lower adjustment button
8	Auxiliary display area (pressure setpoint)

SPECIFICATION

Model		DPS-801 Compound pressure	DPS-810 Positive pressure
Pressure measure	Range of Measure	-100KPa~+100KPa	-100KPa~+1000KPa
	Setting Range	-100KPa~+100KPa	-100KPa~+1000KPa
	Withstand Pressure	500KPa	1500KPa
	Pressure Type	Non flammable, non-corrosive gas, gauge pressure measurement	
	Measure Accuracy	≤±2%F.S.(ambient temperature 25°C)	
	Temperature Error	≤±3%F.S. (temperature range 0~ 50°C)	
	Measure Pattern	Single point mode Hysteresis model Window comparator mode	
Port size		R1/8, G1/8, NPT1/8, M5	
Input Power	Voltage Range	12~24VDC ±10%	
	Power Consumption	40mA max(non-load)	
Output Signal	Switch output	NPN / PNP MAX CURRENT: 250mA	
	Response time	Adjustable Lowest 2.5mS	
	Communication method	Model: IO-Link Version: V1 .1 Communication speed:COM238.4kbps Ssettings file: IODDfile	Minimum cycle time! 2.5mS Process data length: Input 2bytes,output Obytes Vendor ID: 1524 (0x5F4)
Environmental Resistance	Ip Class	IP40	
	Ambient Temperature	Use temperature 0~50°C ,storage temperature -20~60°C	
	Ambient Humidity	Operating humidity 35~ 80%RH	
	Insulation Voltage	1000VAC 1min	
	Insulation Resistance	≥50mΩ(500VDC)	
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z	
	Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z	

ORDERING CODE



1. DPS-8 Series Digital Pressure Switch

2. Range
10: -100~1000kpa
01: -100~100kpa

3. Port
R: R1/8 M5
G: G1/8 M5
N: NPT1/8 M5

4. Output
D: 2 Line Switch
With M12 aviation plug

5. Mounting
M: Panel
Z: L bracket
S: S bracket

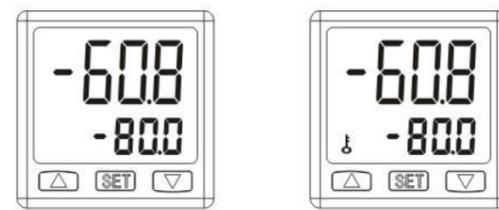
QUICK SETTING

Zero point setting



In the measure mode, Press button at the same time. until display "O", release the button
PS: Reset range: 10% F.S.

key lock and unlock



Lock: In the measure mode, press at the same time until "LOCK ON" shown, release the buttons
Unlock: Press same button. until "Lock off"

Easy setup



In the measurement mode press the set key to switch the auxiliary display to display the value set by the corresponding switch.

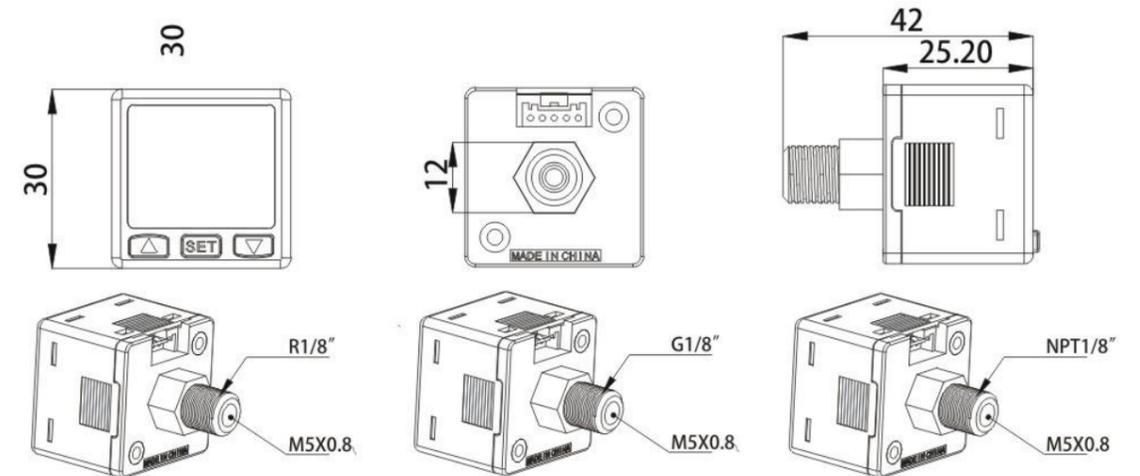


In the measurement mode, press the set key to directly set the switch point value of the current auxiliary display, and support long press to change quickly.



MOUNTING DIMENSIONS(mm)

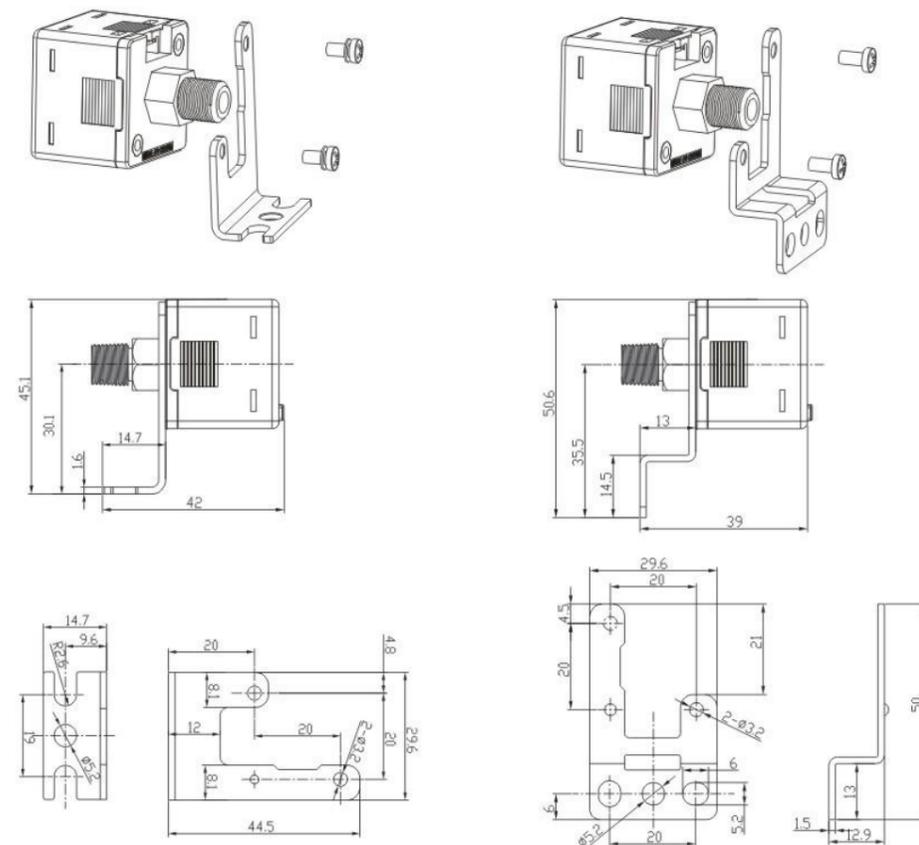
Overall dimension & connection port



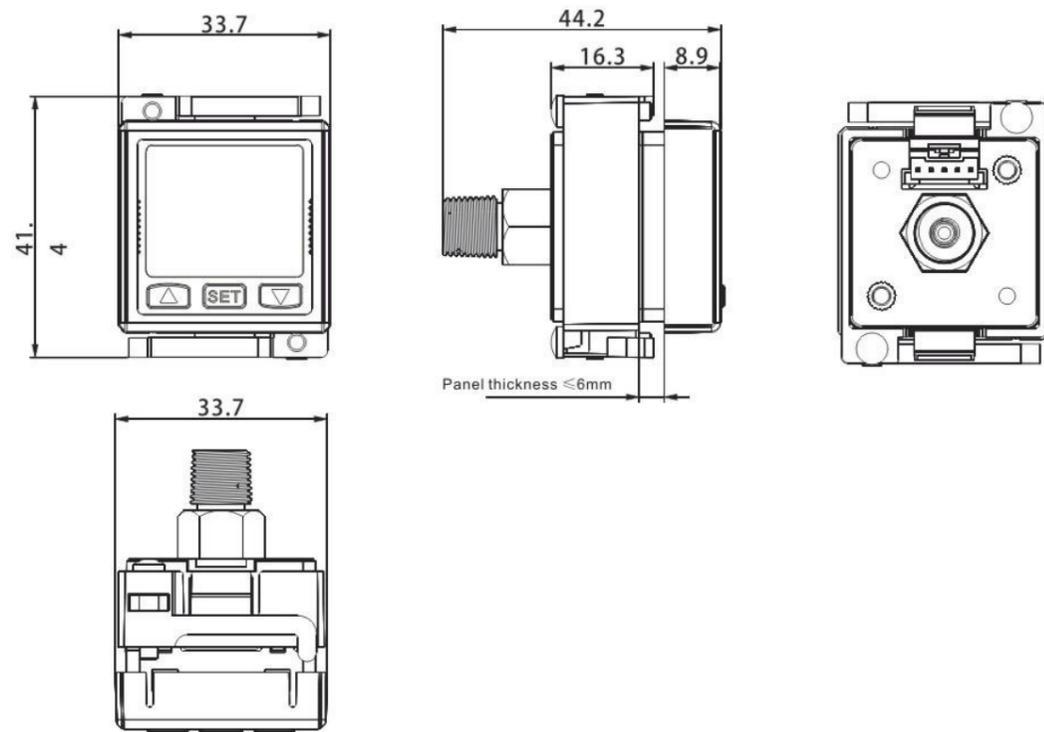
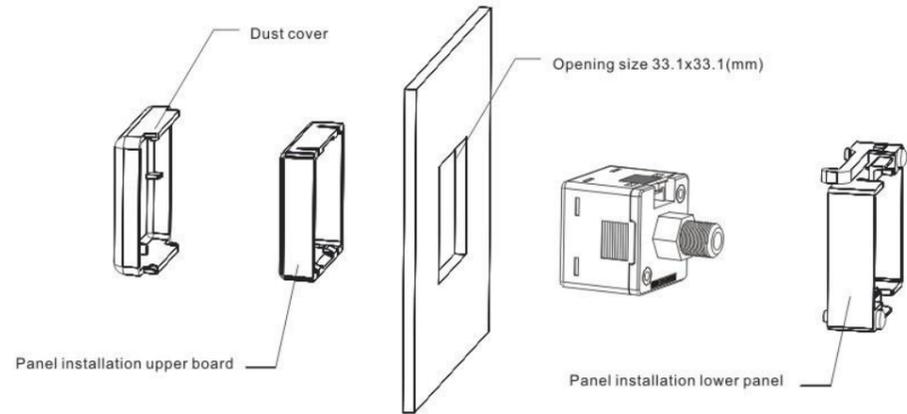
Mounting bracket

L bracket

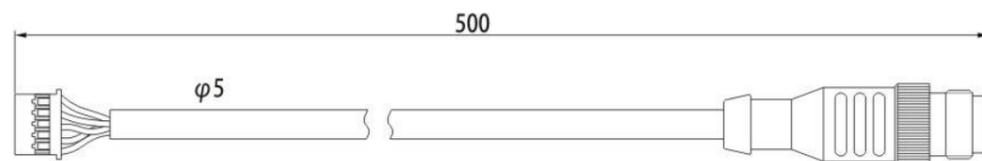
S bracket



Panel bracket

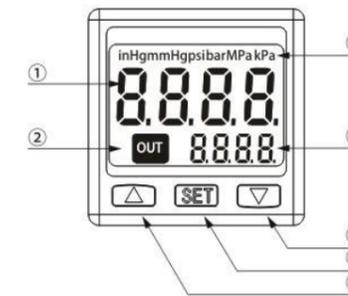


Wire size



DPS-6 Series

PANEL

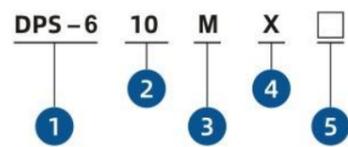


No	Name
1	Main display area
2	Output indicator
3	Up button
4	Set button
5	Down button
6	Sub-display section
7	Pressure unit

SPECIFICATION

Model		DPS-601 Mixed pressure	DPS-610 Positive pressure
Pressure measure	Range of Measure	-100KPa~+100KPa	-100KPa~+1000KPa
	Setting Range	-100KPa~+100KPa	-100KPa~+1000KPa
	Withstand Pressure	500KPa	1500KPa
	Pressure Type	Non flammable, non-corrosive gas, gauge pressure measurement	
	Measure Accuracy	≤±2%F.S.(ambient temperature 25°C)	
	Temperature Error	≤±3%F.S. (temperature range 0~ 50°C)	
	Measure Pattern	Easy mode Hysteresis model Compar mode of upper and lower bounds	
Port size		Internal thread M5	
Input Power	Voltage Range	12~24VDC ±10%	
	Power Consumption	40mA max(non-load)	
Output Signal	Transistor output	NPN/PNP open-collector output Output current: 80mA MAX	
	Response time	Adjustable:MIN 2.5MS	
	Analog output	Voltage output Signal amplitude:1-5V Load resistance: >1KΩ	
Environmental Resistance	Ip Class	IP40	
	Ambient Temperature	Operating temperature 0~50°C ,storage temperature -20~60°C	
	Ambient Humidity	Operating humidity 35~ 80%RH	
	Insulation Voltage	1000VAC 1min	
	Insulation Resistance	>50mΩ(500VDC)	
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z	
Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z		

ORDERING CODE



1. DPS-6 Series

2. Range
 10: -100~1000kpa
 01: -100~100kpa

3. Port
 R: R1/8
 N: NPT1/8
 G: G1/8
 M: M5 Thread

4. Output

X: 1*NPN+1*PNP
 V: 1*NPN+1*PNP&
 Analog 1-5V

5. Mounting

M: Panel
 Z: L Bracket
 M: S Bracket

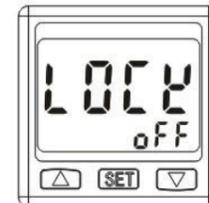
QUICK SETTING

Zero point setting



In the measure mode, press button at the same time, until display "o", release the button

key lock and unlock

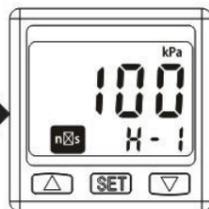


Lock: in measure mode, press + until "LOCK ON" shown;
 Unlock: press + until "LOCK OFF" shown;

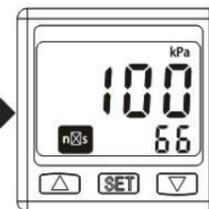
Easy setup



In the measure mode, press button to enter easy setting mode

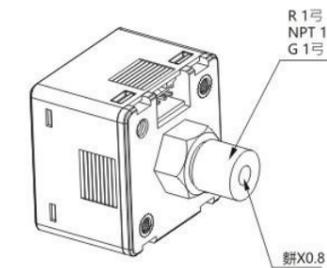
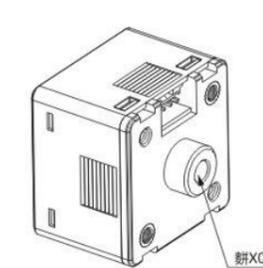
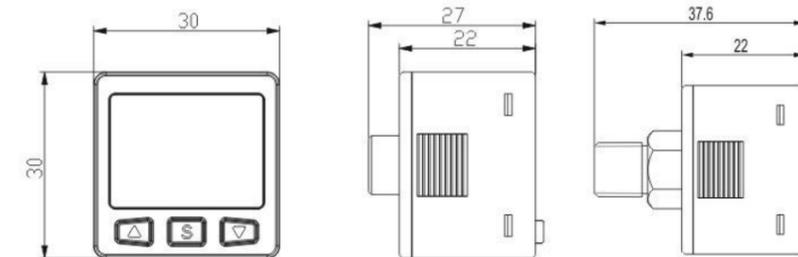


In the measure mode, press or button to adjust the value



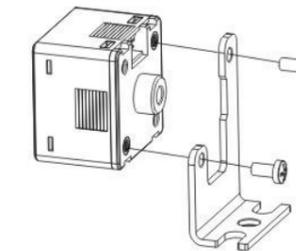
MOUNTING DIMENSIONS(mm)

Overall dimension & connection port

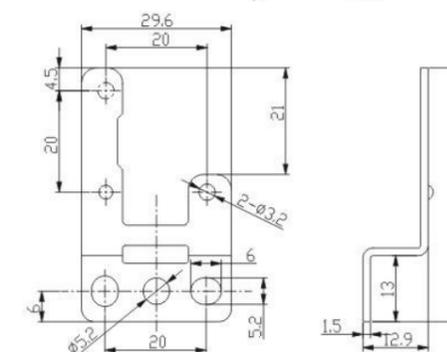
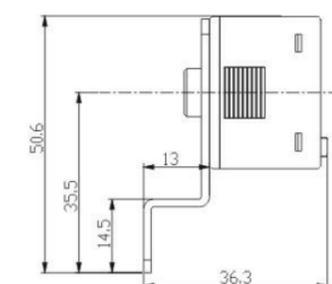
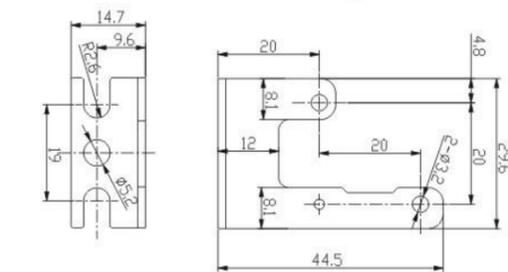
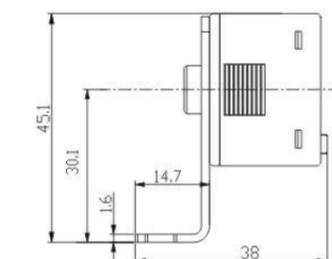
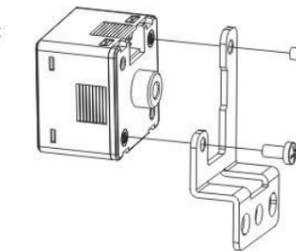


Mounting bracket

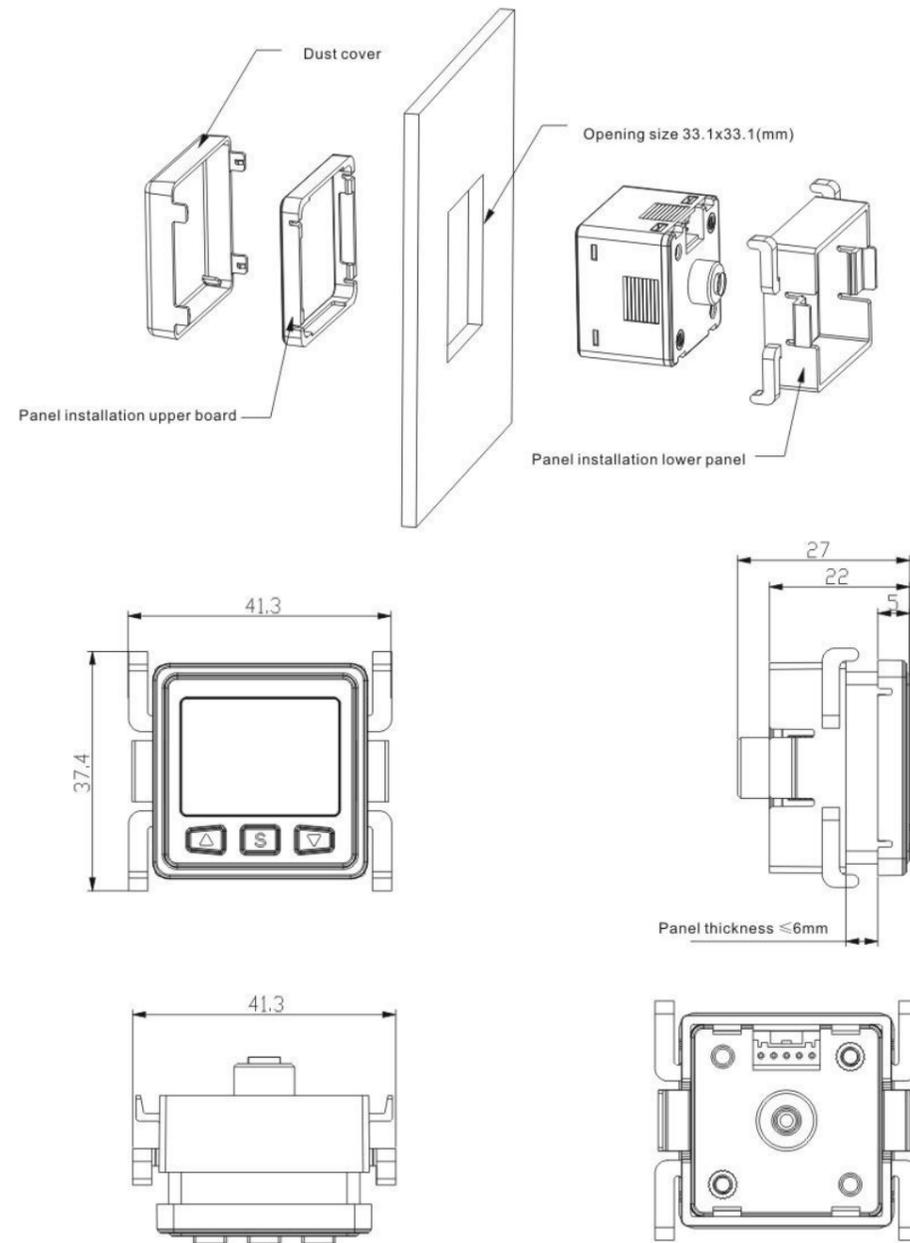
L bracket



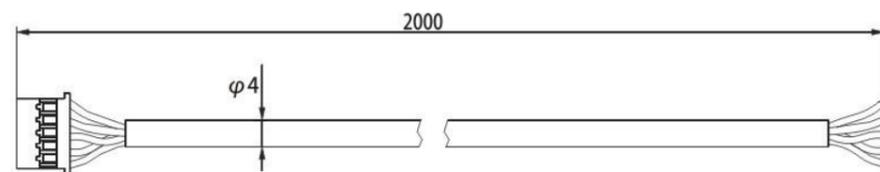
S bracket



Panel bracket

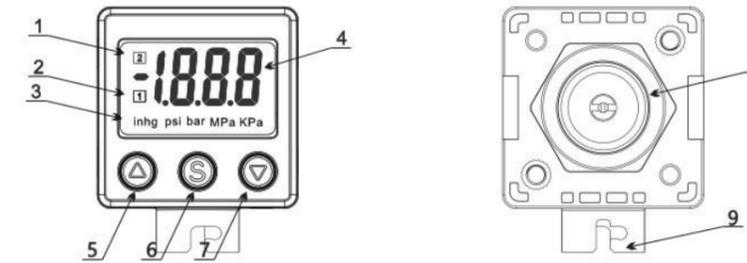


Wire size



DPS-5 Series (Anti-corrosion)

PANEL

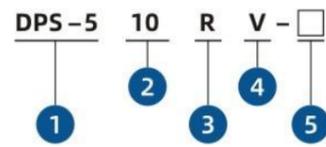


No	Name
1	Output indicator
2	Output indicator
3	Pressure unit
4	Main display section
5	Up button
6	Section button
7	Down button
8	Pressure port
9	Electric interface

SPECIFICATION

Model	DPS-501	DPS-510	DPS-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	Any flow which do not react with 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 model indow mode.		
Port size Male thread R1/4, NPT1/4, G1/4, female thread M5				
Display	Status Display	LCD, 4-digit measurement value, unit display, output status display		
	Display Model	Adjustable backlight, 4 groups of display modes		
Input Power	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 :80mA MAX Voltage drop : ≤1V	
	Analog Output	Voltage output Signal ampliude:1~5V Load resistance ≥1KΩ	Current output Signal ampliude:4~20mA Load resistance ≤400Ω	
	Response Time	Adjustable : 2.5ms、 20ms、 100ms、 500ms、 1000ms、 1500ms		
	Short-circuit Protecdtion	Yes		
Environmetal Resistance	Ip Class	IP65		
	Ambient Temperature	Operating temperature 0~50°C ,storage temperature -20~60°C		
	Ambient Humidity	Operating humidity 35~ 80%RH		
	Insulation Voltage	1000VAC 1min		
	Insulation Resistance	≥50mΩ(500VDC)		
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z		
	Vibration	Amplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z		

ORDERING CODE



1. DPS-5 Series

2. Range

10: -100~1000kpa
20: -100~2000kpa
01: -100~100kpa

3. Port

R: R1/4" (M5 female thread)
N: NPT1/4"(M5 female thread)
G: G1/4" (M5 female thread)

4. Output

V: 2*NPN+Analog 1~5V
W: 2*PNP+Analog 1~5V
A: 2*NPN+Analog 4~20mA
B: 2*PNP+Analog 4~20mA

5. Mounting

M: Panel
N: Panel+shield
Z: L bracket
S: S bracket

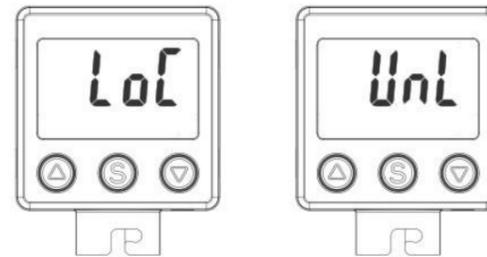
QUICK SETTING

Zero point setting



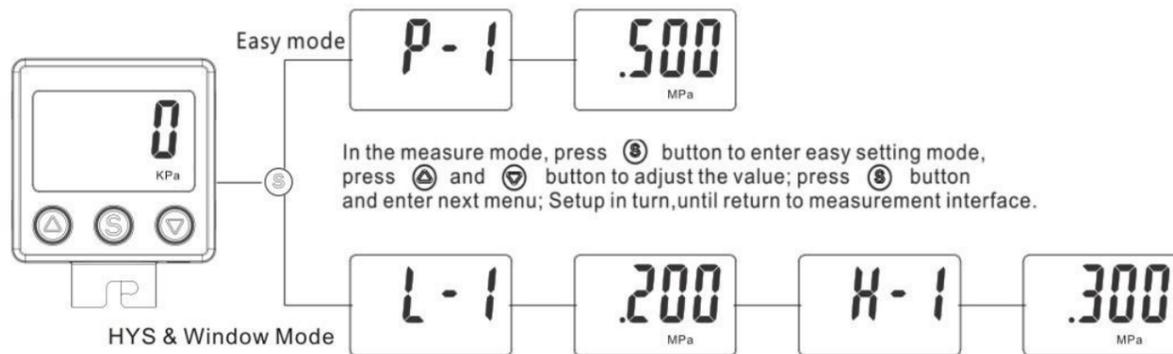
In the measure mode, press Δ + ∇ button at the same time, until display "0", release the button;
PS: reset range: +/-10%F.S.

key lock and unlock



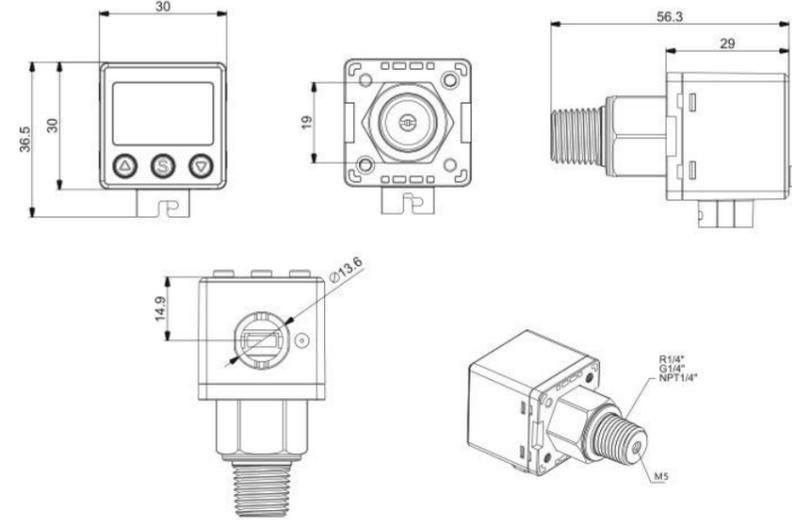
Lock: in the measure mode, press Δ + S + ∇ button at the same time until "LoL" shown, release the buttons;
Unlock: in the measure mode, press Δ + S + ∇ button at the same time until "UnL" shown, release the buttons.

Easy setup



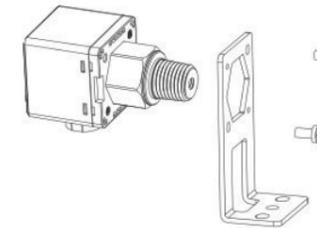
MOUNTING DIMENSIONS(mm)

Overall dimension & connection port

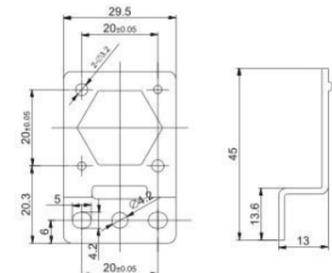
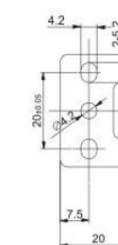
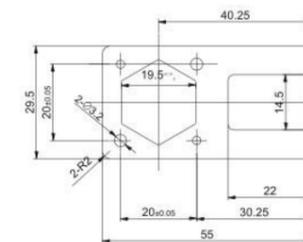
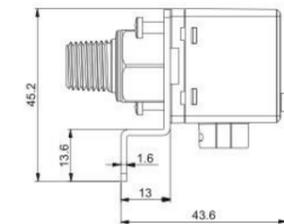
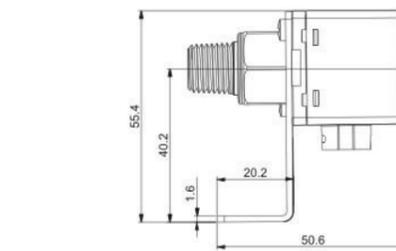
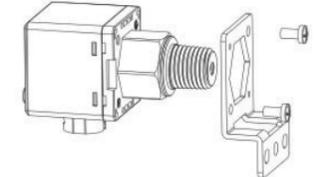


Mounting bracket

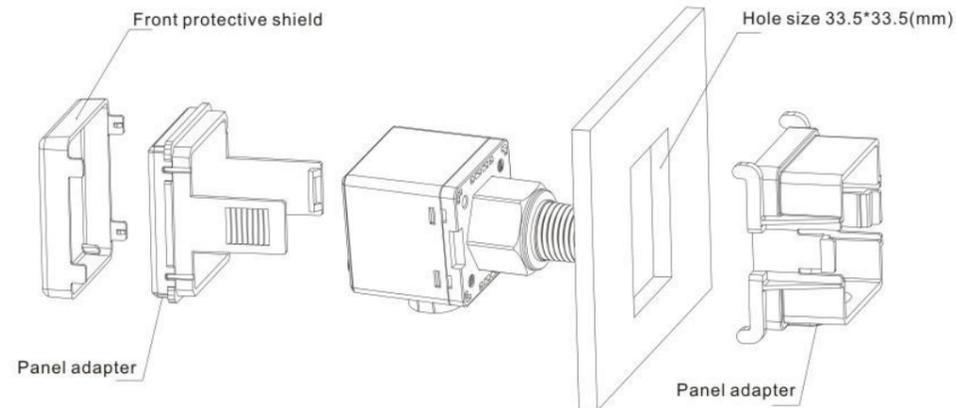
L bracket



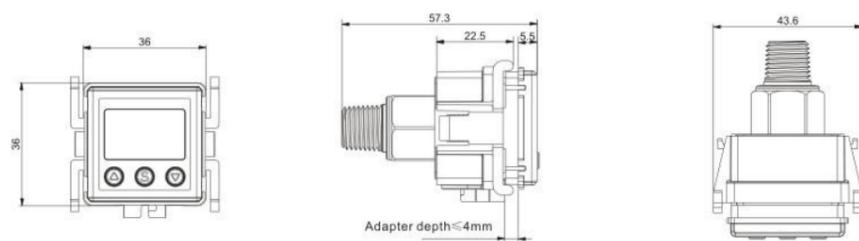
S bracket



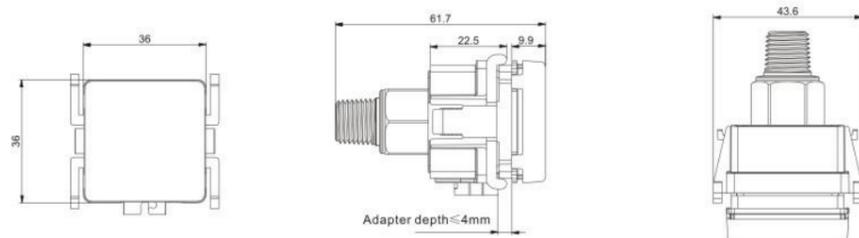
Panel bracket



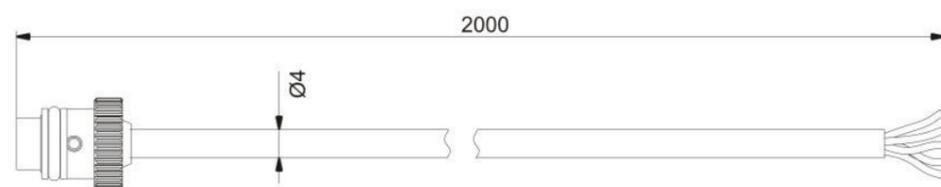
Panel mount



Add dust cover installation

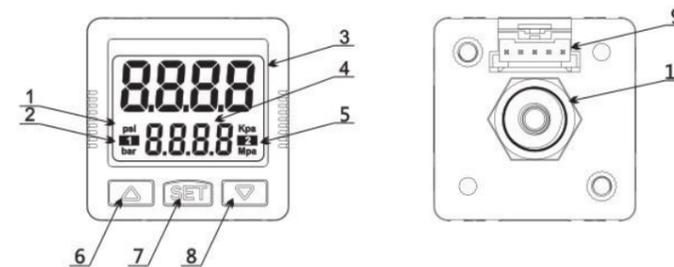


wire dimension



DPS-2 Series

PANEL

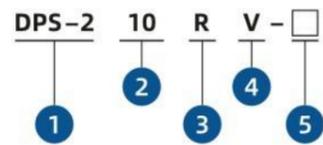


No	Name
1	Pressure Unit
2	Ouput 1 Indicator
3	Main Display Section
4	Sub-display Section
5	Ouput 2 Indicator
6	Up Button
7	Setting Button
8	Down Button
9	Electric Interface
10	Pressure Port

SPECIFICATION

Model		DPS-201(Compound)	DPS-210(Positive)
Pressure measure	Range Of Measure	-100kPa~100kPa	-0.100MPa~1.000MPa
	Setting Range	-100kPa~100kPa	0.000MPa~1.000MPa
	Withstand Pressure	500kPa	1.500MPa
	Pressure Type	Non-flammable ,Non-corrosive gas, Gauge pressure measurement	
	Measure Accuracy	≤±2%F.S.(Ambient temperature 25°C)	
	Temperature Error	≤±3%F.S. (Temperature range 0~ 50°C)	
	Measure Pattern	Hysteresis model Compare mode of upper and lower bounds	
Port size		External R1/8、NPT1/8、G1/8 option , internal thread M5	
Display	Brief Description	Double LCD display	
	Status Display	4-digital measurement value ,unit display,output status display	
	Display Model	Adjustable backlight ,4 groups of dispaly models	
Input Power	Voltage Range	12~24vdc ±10%	
	Power Consumption	40mA MAX(Non-load)	
Output Signal	Transistor Output	NPN open-collector oupt Output current :80mA MAX Voltage drop : ≤1V	PNP open-collector oupt Output current :80mA MAX Voltage drop : ≤1V
	Analog Output	Voltage output Signal ampliude:1~5V Load resistance >1kΩ	Current output Signal ampliude:4~20mA Load resistance<400kΩ
	Response Time	Adjustable : 2.5ms、20ms、100ms、500ms、1000ms、2000ms	
	Short-circuit Protecdtion	Yes	
Environmetal Resistance	Ip Class	IP40	
	Ambient Temperature	Operating temperature 0~50°C ,storage temperature -20~60°C	
	Ambient Humidity	Operating humidity 35~ 80%RH	
	Insulation Voltage	1000VAC 1min	
	Insulation Resistance	≥50mΩ(500VDC)	
	Shock	Max100m/s²,3time seach in 6 directions of x,y,z	
	Vibration	A mplitude 1.5mm, 10HZ~ 500HZ, 2 hours each direction of x,y,z	

ORDERING CODE



1. DPS-2 Series

2. Range

10: -100~1000kpa
01: -100~100kpa

3. Port

R: R1/8(M5 female thread)
N: NPT1/8 (M5 female thread)
G: G1/8 (M5 female thread)

4. Output

N: NPNx2
P: PNPx2
A: NPN+Analog 4~20mA
V: NPN+Analog 1~5V
B: PNP+Analog 4~20mA
W: PNP+Analog 1~5V

5. Mounting

M: Panel
N: Panel+shield
Z: L bracket
S: S bracket

QUICK SETTING

Zero point setting



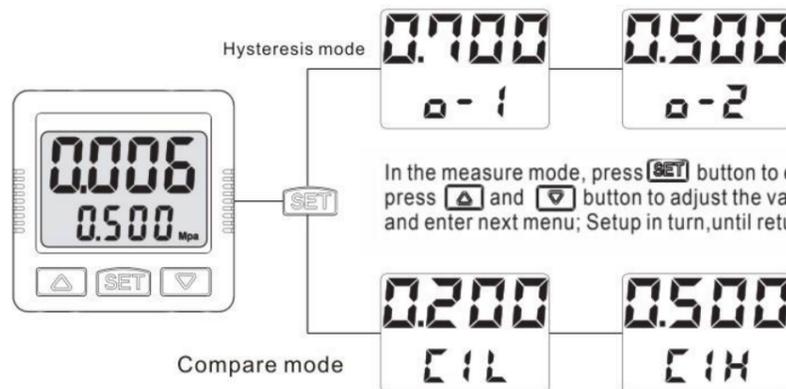
In the measure mode, press Δ + ∇ button at the same time, until display "0", release the button;
PS: reset range: +/-10%F.S.

key lock and unlock



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

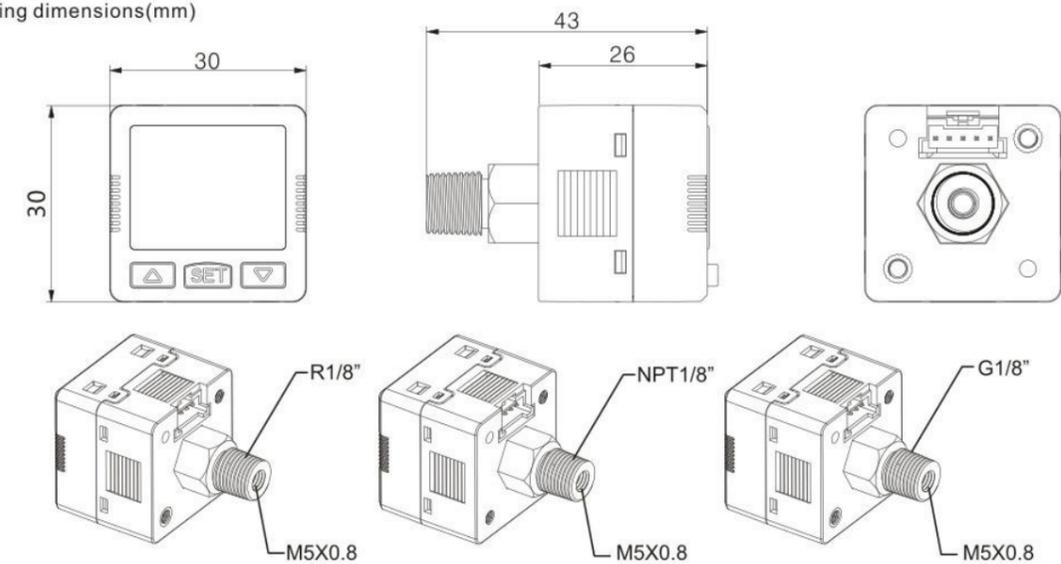
Easy setup



In the measure mode, press **SET** button to enter easy setting mode, press Δ and ∇ button to adjust the value; press **SET** button and enter next menu; Setup in turn, until return to measurement interface.

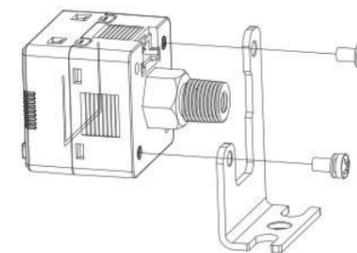
MOUNTING DIMENSIONS(mm)

Mounting dimensions(mm)

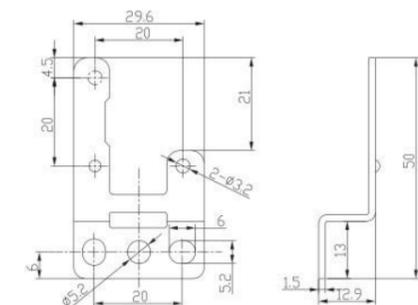
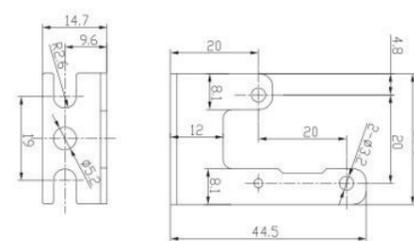
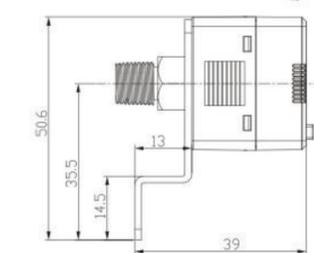
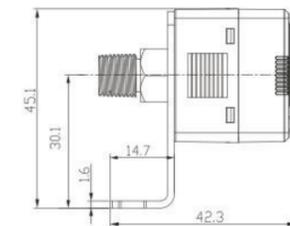
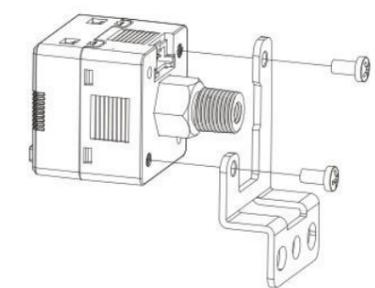


Mounting Bracket

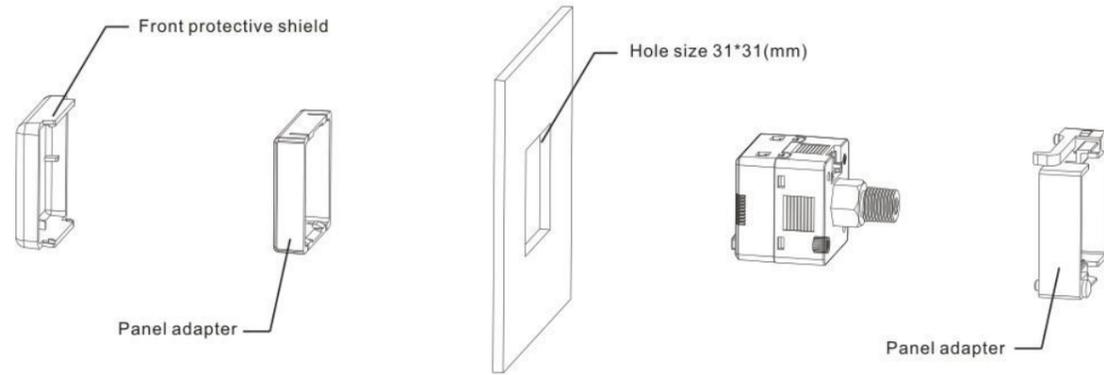
L bracket



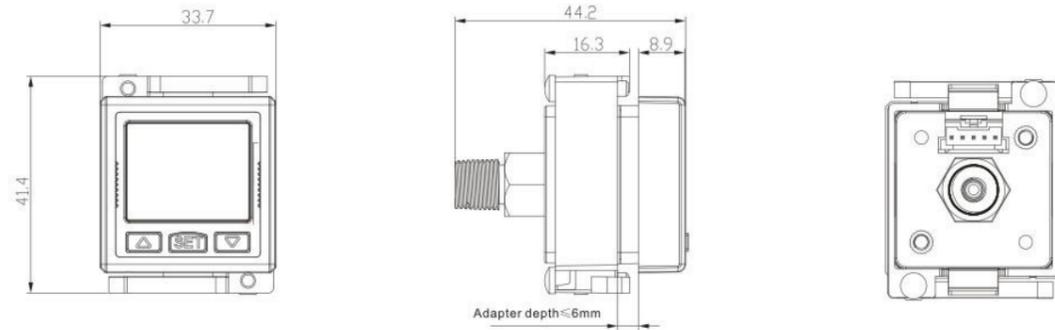
S bracket



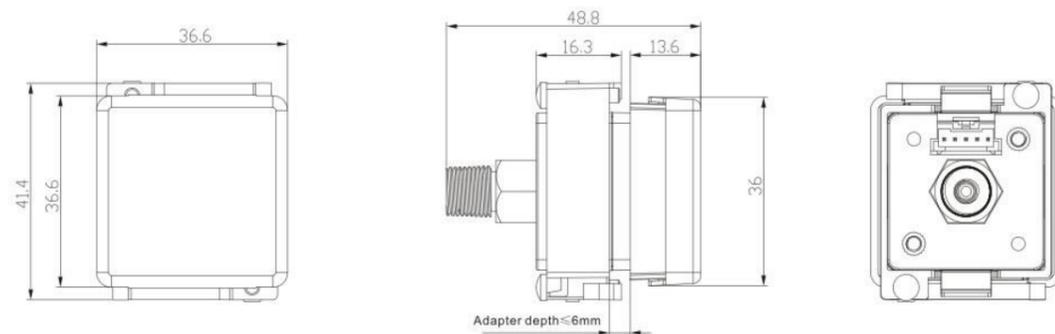
Panel bracket



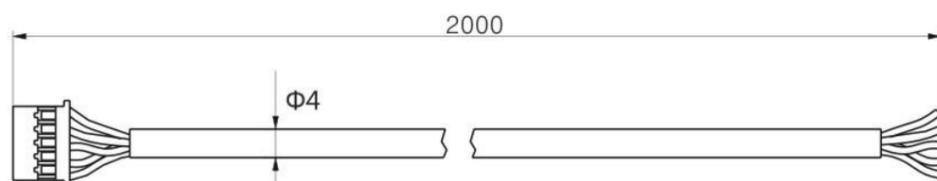
Panel mount



Add dust cover installation

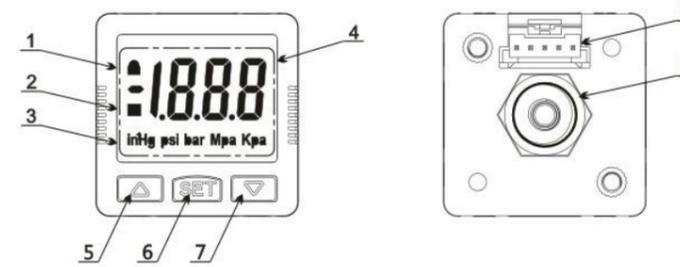


Wire dimension



DPS-3 Series (Anti-corrosion)

PANEL



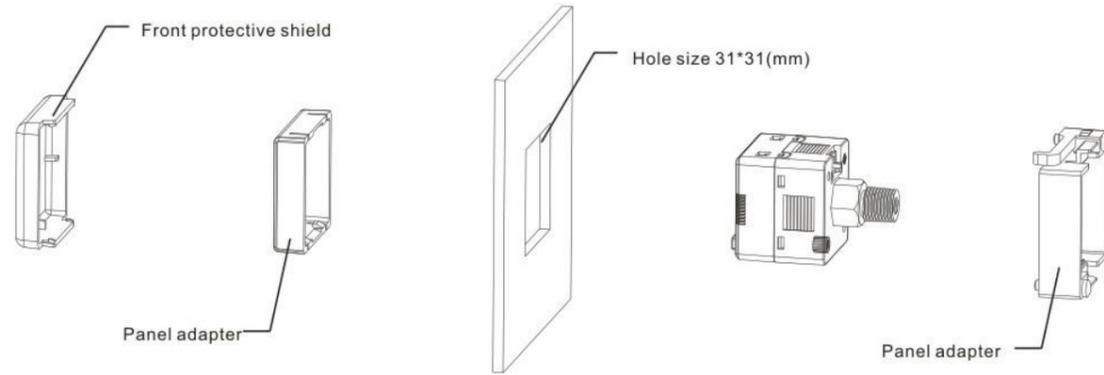
序号	名称
1	Locking indicator
2	Output indicator
3	Pressure unit
4	Main display section
5	Up button
6	Setting button
7	Down button
8	Electric interface
9	Pressure port

SPECIFICATION

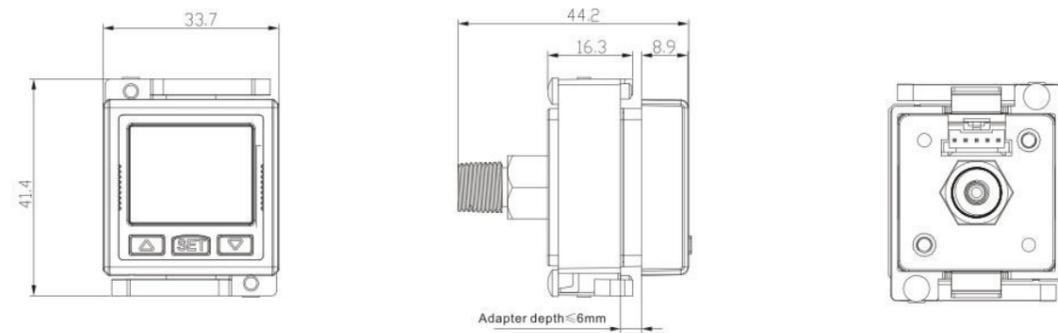
Model		DPS-301(Compound)	DPS-310(Positive)
Pressure measure	Range Of Measure	-100kPa~100kPa	-0.100MPa~1.000MPa
	Setting Range	-100kPa~100kPa	0.000MPa~1.000MPa
	Withstand Pressure	500kPa	1.500MPa
	Pressure Type	Non-flammable ,Non-positive gas, Gauge pressure measurement	
	Measure Accuracy	≤±2%f.s.(ambient temperature 25°C)	
	Temperature Error	≤±3%f.s. (t temperature range 0~ 50°C)	
	Measure Pattern	Hysteresis mode Single point mode Window mode	
Port size		External R1/8, NPT1/8, G1/8 option , internal thread M5	
Display	Status Display	LCD display,4-digital measurement value ,unit display ,output status display	
	Display Model	Adjustable backlight ,4 groups of display models	
Input Power	Voltage Range	12~24vdc ±10%	
	Power Consumption	40ma max(non-load)	
Output Signal	Transistor Output	NPN open-collector oupt Output current :80ma max Voltage drop : ≤1v	PNP open-collector oupt Output current :80ma max Voltage drop : ≤1v
	Response Time	Adjustable : 2.5ms、 20ms、 100ms、 500ms、 1000ms、 2000ms	
	Short-circuit Protection	Yes	
Environmental Resistance	Ip Class	IP40	
	Ambient Temperature	Operating temperature 0~50°C ,storage temperature -20~60°C	
	Ambient Humidity	Operating humidity 35~ 80%rh	
	Insulation Voltage	1000vac 1min	
	Insulation Resistance	≥50mΩ(500vdc)	
	Shock	Max100m/s ² ,3time seach in 6 directions of x,y,z	
Vibration	A mplitude 1.5mm, 10hz~ 500hz, 2 hours each direction of x,y,z		

DPS series digital pressure switch

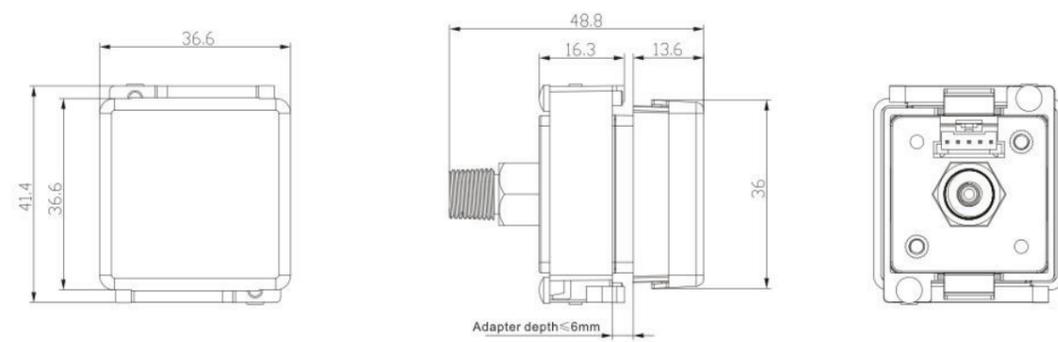
Panel bracket



Panel mount



Add dust cover installation



Wire dimension

