

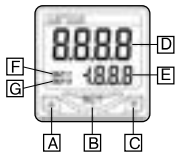
DPS Series digital display pressure sensor



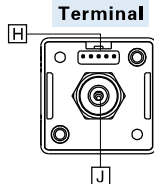
Symbol



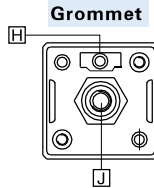
User interface Instruction



No.	Item
A	Value up button
B	Setting button
C	Value Down button
D	Pressure display area
E	Set pressure display area
F	Output 1 indicator light
G	Output 2 indicator light
H	Power and signal connector
J	Pressure input

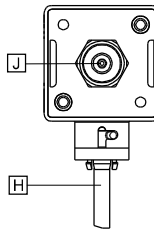


Terminal



Grommet

Output on the bottom



Specification

Input power	Voltage	12~24 VDC ± 10% Ripple(p-p) < 10%	
Pressure range	Fluid	Non-corrosive gas	
	Measurement range	DPSN1(P1)-01: -100kPa~100kPa	
		DPSN1(P1)-10: -100kPa~1,000kPa	
	Withstand pressure	DPSN1(P1)-01: 200kPa	
		DPSN1(P1)-10: 1500kPa	
Measurement error	± 2% F.S. , ± 1digit(Temperature:25 ± 3°C)		
	Repetitive accuracy ± 0.2% F.S.		
	Temperature error ± 3% F.S.(Base 25°C, Range 0 to 50°C)		
Display	Type	Double row LCD display,4-digit measurement, 3.5-digit setting	
	Color	2-color LCD (Red/Green)	
	Display period	100ms、250ms、500ms、1,000ms	
Output group	DPSN1:Built-in two sets of NPN output		
	DPSP1:Built-in two sets of PNP output		
	Transistor output	NPN:Maximum applied voltage 30V/100mA,Retained voltage <1.5V	
		PNP:Maximum applied voltage 30V/100mA,Retained voltage <1.5V	
	Output delay time	2ms、20ms、50ms、100ms、250ms、500ms 1,000ms、2,500ms、5,000ms	
Hysteresis		DPSN1(P1)-01: 0.1、0.2、0.3..... 0.8(kPa)	
	DPSN1(P1)-10: 1、2、3..... 8(kPa)		
Output mode	Basic mode, Hysteresis mode, Window comparator mode		
	Pressure Unit	DPSN1(P1)-01 kPa、kgf/cm ² 、bar、psi、mmHg、inHg	
DPSN1(P1)-10 MPa、kPa、kgf/cm ² 、bar、psi、cmHg、inHg			
Vibration resistance		10 to 500Hz with 10mm Amplitude in X, Y, Z directions for 2hrs	
Impact resistance		Maximum 100m/s ² , X, Y, Z directions 3 times each	
Operating Temp. range		0~50°C	
Stored Temp. range		-20~65°C	
Humidity range		35%~80% RH(No condensation)	

Ordering code

DPS N1 □ -01 020 G

① ② ③ ④ ⑤ ⑥

① Model	② Output type	③ Electrical entry	④ Measurement range	⑤ Lead wire length	⑥ Piping specifications
DPS: Digital Display Pressure Sensor	N1: NPN P1: PNP	Space: Plug-in type B: Pre-wired type [Note1] D: Output on the bottom type	01: -100kPa~100kPa 10: -100kPa~1,000kPa	020: Length 2m 030: Length 3m 050: Length 5m M08:300mm with M8 plug connector[Note2]	G: Male thread G1/8; female thread: M5

[Note1] The safety grade of pre-wired type is IP63.

[Note2] There is no plug-in type for M08.

The sockets of M08 need additional order. Please check on the right.

Ordering code of Socket **F - EC M08 D 020**



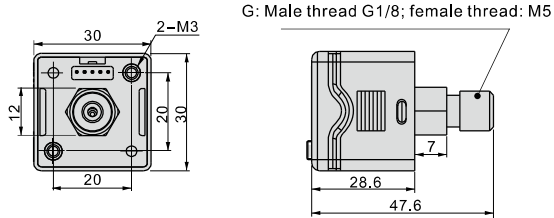
Catagory code	F: Accessory
Type code	EC: Connecting wire
Socket type	M08:M8 socket
Wire type	D: 4-wire type
Wire length	020: 2 meters 030:3meters 050:5meters 100:10meters

Preparation unit—Accessories

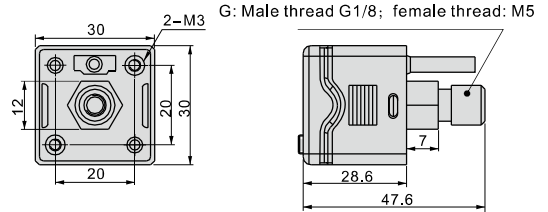
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Dimensions

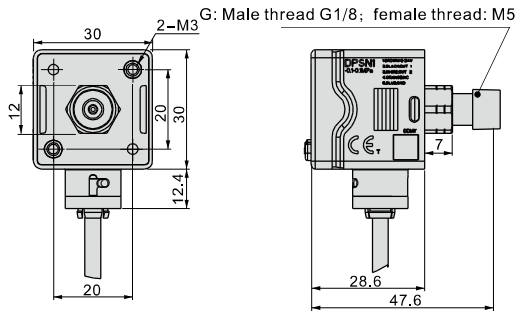
Plug-in type



Pre-wired type



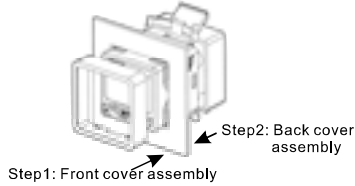
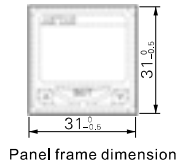
Output on the bottom type



Dimensions/Assembly Instruction

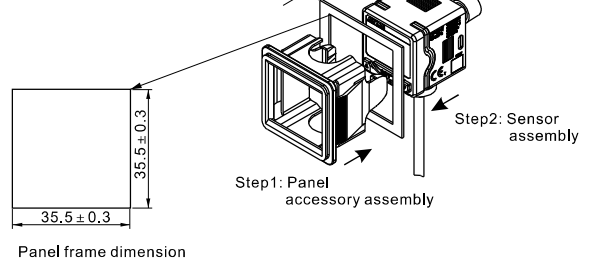
Panel mount adapter + Front protective cover

Order the Installation accessories
(Ordering code: F-DPSEB, applicable to terminal and gromment type)



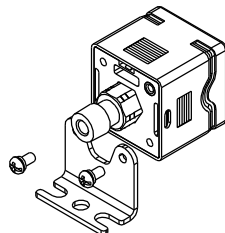
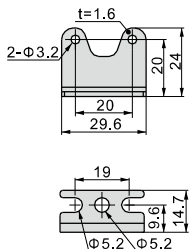
Order the Installation accessories
(Ordering code: F-DPSEB, applicable to bottom ported type)

Applicable panel thickness (T): 1~5mm



Bracket

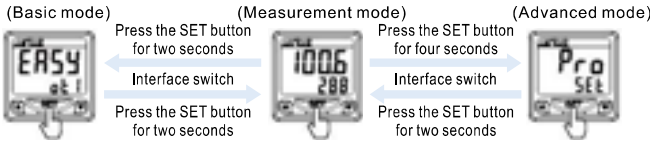
Order the installation accessories (Ordering code: F-DPSLB)



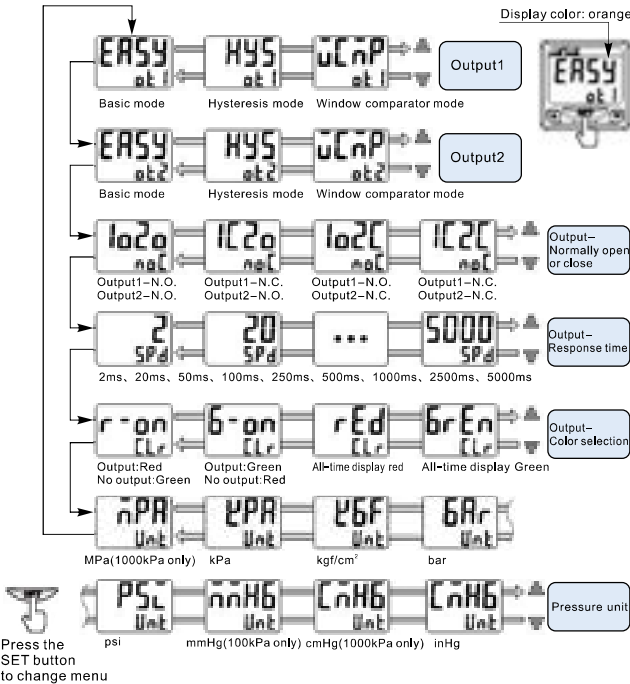
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User Interface Instructions

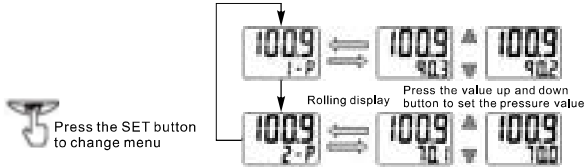
1. Mode switch



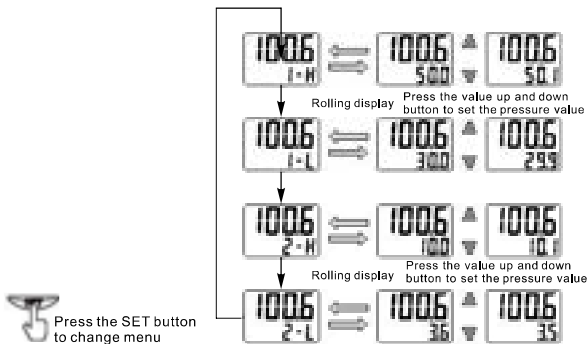
2. Basic mode



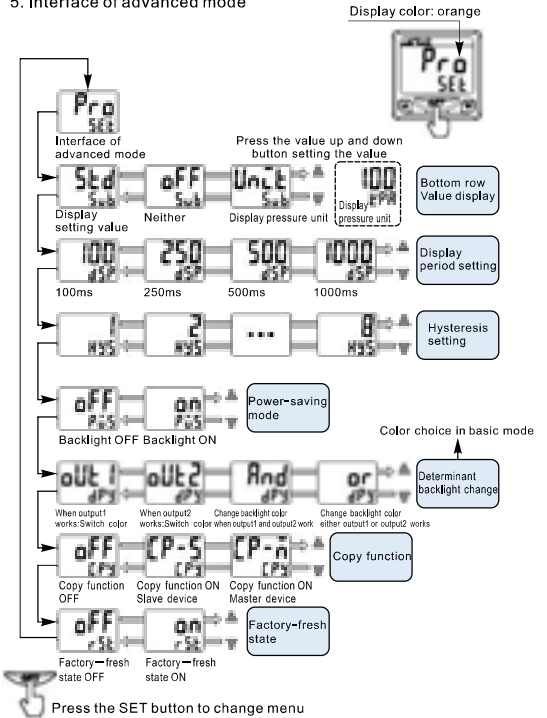
3. Base mode pressure setting



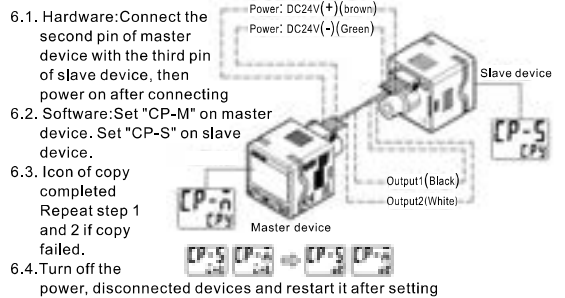
4. Hysteresis /window comparator mode



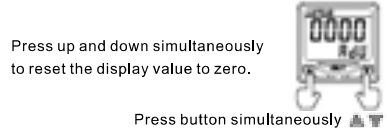
5. Interface of advanced mode



6. Copy function



7. Zero-Clear Function



8. Key lock Function

