MPS-9A Series

LED Digital Pressure Sensor Instruction Manual

Thank you for purchasing a CONVUM product. Please read this instruction manual carefully and make sure that you understand its operation procedure before using the product. This manual is important for later reference, so please keep it in good hands.



∴ Caution

- Operating environment Do not use this product in a place exposed to explosive or inflammable gas.
- Source voltage Avoid overload beyond the source voltage and do not charge AC100V because it may burn the product.
- This product is used for pressure confirmation, not for safeguard against accidents or the like.

Please Mind Correct Use.

- This sensor is used for non-corrosive gas only, cannot be used for liquid or corrosive gas.
- Do not apply excessive force to the resin part when installing a joint or nipple onto the pressure port.



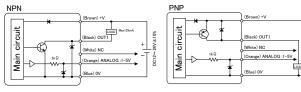
• Don't insert the pressure port with wire or the like. Pressure diaphragm may be damaged. The protection structure of this sensor is IP40. Don't water it.





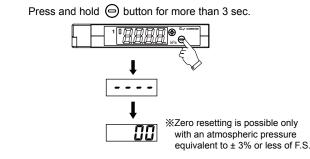
 Don't put the cable parallel to high-tension cable or power line, which may cause a malfunction.

Output circuit diagram



*The white line insulates the terminal and please don't connect it anywhere. It will be the cause of the failure.

How to reset the set value to zero

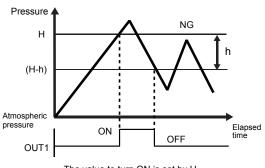


1 OUT1 setting

Press button once. wait 3 sec Set (H-1) value which hysteresis Press ⊕ and ⊜ button at the same time Set a hysteresis range (h-1) by (4) (a) button.

Press (a) and (a) button at the same time

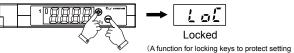
Hysteresis mode chart



The value to turn ON is set by H. The differential width is set by h. The value to turn OFF is (H-h).

How to set the security lock

Press (4) and (-) button for more than 3 sec.



then displays and it is unlocked.

2-Ф3.2

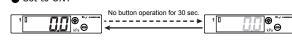
Shrinkable tube

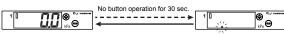
AWG26, Outline 3,8mm

values. Key setting cannot be used afterwards.

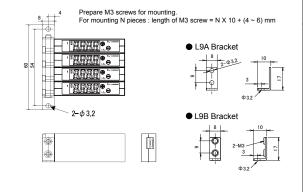
Dimensional outline drawing

Body (M5 port type)

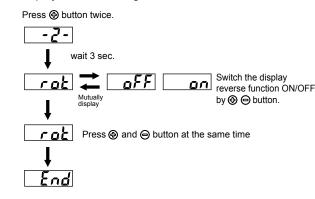




L9 bracket (option) installation



2 Display reverse setting



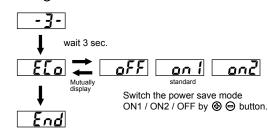
Feature Description

Display reverse function is set to ON, the display will be reversed. Please note that the decimal point is displayed above in this case.



3 Power save setting

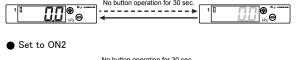
Press button three times

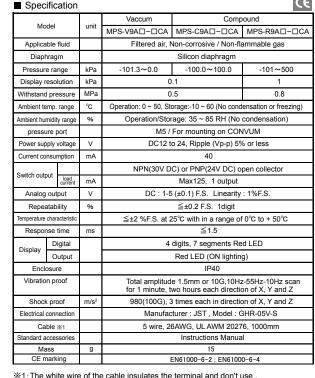


Feature Description

- ★No operation for 30 seconds in the measurement mode, it switches to power saving mode
- ★Set to ON1, the display turns dark after 30 seconds.
- ★Set to ON2, the display turns off except decimal point after 30 seconds and only the decimal point is blinking.

Set to ON1





- A : Analog Output(DC1-5V)

③Output type · · · N : NPN output / P : PNP output

①Pressure range · · · V: Vacuum (-101.3kPa ~ 0.0kPa)

- ②M : M5 pressure port / C : For mounting on CONVUM

C : Compound (-100.0kPa ~ 100.0kPa)

R: Compound (-101kPa ~ 500kPa)

connector 1m lead wire

• Model number for accessories · · · MPS-ACCK6 : L9 bracket (L9A, L9B fitting 1pc each)

9A Series

Model number and specifications

MPS-19A2-3CA

%1: The white wire of the cable insulates the terminal and don't use

Alarm list

	EE I	OUT1 over current	Output current of over 125mA is flowing.	Check for load.
	£	Zero reset error	Zero reset at over 3% F.S.	Correct atmospheric pressure intake
ĺ	E- 1	System error	Internal failures	Contact Service Dept.

Other display items (not alarms)

FFF	Rated range full	Pressure value surpassing the rated range
- <i>F F</i>	Back pressure full scal	Pressure value surpassing the back pressure range

