

Precautions to be taken

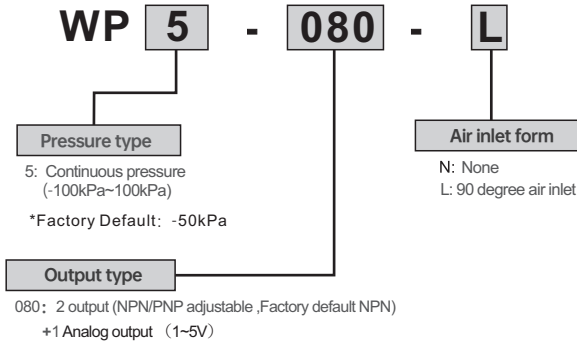
- It is prohibited to use in corrosive and flammable gases or any liquids.
- Please use the product within the rated pressure range. If the pressure exceeds the maximum withstand pressure, the product will be damaged, resulting in abnormal function.
- When installing this product, do not hit it hard or drop it from a high place, as it may function abnormally due to damage to internal parts.
- When connecting this product to a circuit control system, turn off the power first ; incorrect wiring or short-circuiting can cause damage to this product.
- Do not use this product in an environment with moisture or oil mist.
- This product is not certified as explosion-proof, so do not use it in an environment containing explosive gases or dusts.
- Keep the wires of this product away from power lines or other high-voltage environments to avoid surge signal interference, which may affect the function of this product.

A.Specification Parameters

ITEM		Wp5
Rated pressure range		-105.0 ~ 105.0kPa
Setting Pressure		-100.0 ~ 100.0kPa
Pressure Resistance		500kPa
Applicable gases		Air, non-corrosive, non-flammable
Minimum scale for pressure unit setting		kPa: 0.1 kgf/cm ² : 0.001 bar: 0.001 psi: 0.01 inHg: 0.1 mmHg: 1
Supply Voltage		24V DC +10%, Ripple peak 10% or less
Current consumption		≤40mA(without load)
Switching output	Output Modes	2 channel switching(NPN/PNP adjustable)+ 1 analog output
	Maximum load current	125 mA
	Maximum supply voltage	24V DC
	Internal Voltage Drop	≤1.5V
Analog output	Voltage output	1V~5V (or less), Linearity:±1%F. S , Output impedance: 1KΩ
Repeatability		±0.2% F.S. ±1 digit.
Switching reaction time		≤2.5ms (Malfunction prevention function: 2.5ms, 20ms, 100ms, 500ms, 1000ms and 1999ms selectable)
Motion Indicator Lamp		OUT: green; V-Sol control input: red (evacuation signal)
Environmental resistance	Protection class	Ip40
	Operating temperature	Operation:0~ 50°C, Storage: -10 ~ 60°C (non-condensing)
	Environmental humidity	Movement and storage:35 ~ 85% RH (non-condensing)
	Withstand voltage	1000VAC for 1 minute (between leads and plastic case)
	Insulation resistance	50MΩ or more (500V DC) (between lead wires and plastic case)
	Vibration Resistance	Repeated amplitude 1.5mm, every minute 10Hz~ 150Hz~10Hz, 2 hours in each direction of X, Y, Z
Impact resistance		980m/s ² (100G) 3 times in each direction of X, Y, Z
Temperature characteristic		±2% F.S. Reference Temperature 25°C (within the temperature range of 0~50°C)
Air inlet method		90 degree air inlet method or None
Wire specification		Oil-resistant PVC wire(0.15mm ²)
Weight		58g (including 2m of wire)

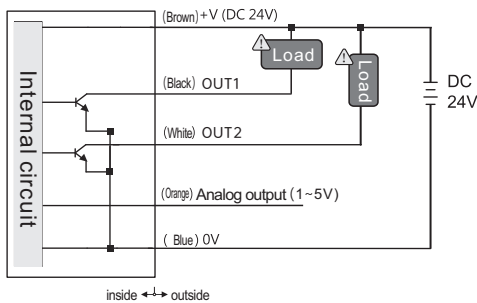
Note: Due to temperature and linear compensation, the barometer may fluctuate slightly around the upper/lower ranges, this is normal.

B. Selection

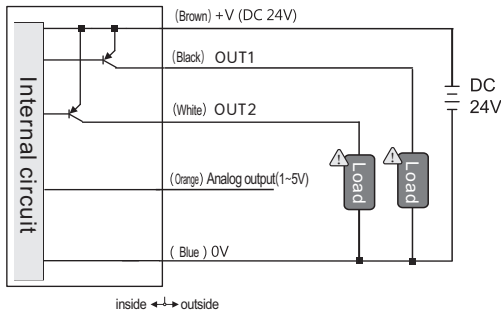


C. Output Circuit Wiring Diagram

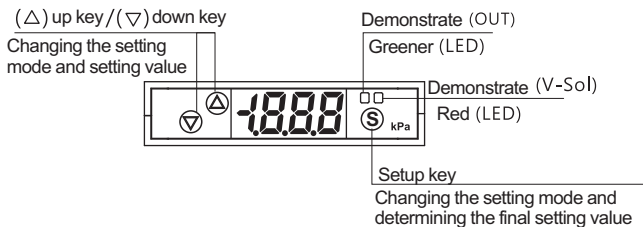
NPN Output



PNP Output

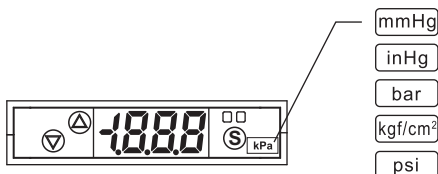


D. Panel Descriptions



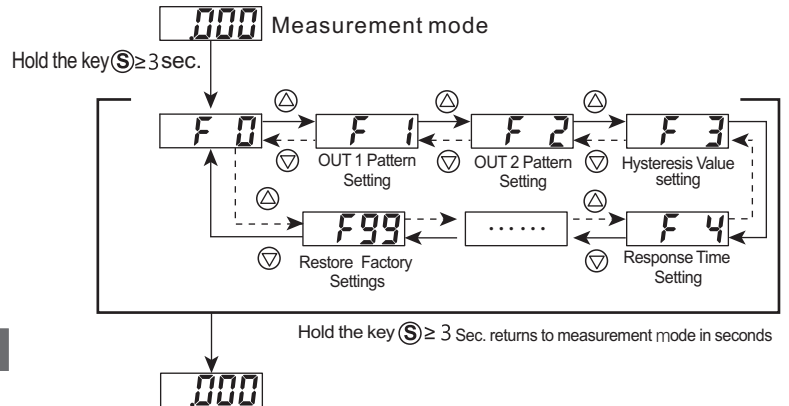
E. Convert pressure unit labels

When the pressure unit is set to a non-kPa unit, please remove the pressure unit sticker from the product box and place the sticker in the position shown below to avoid misuse of the pressure unit, which may result in a setting error.

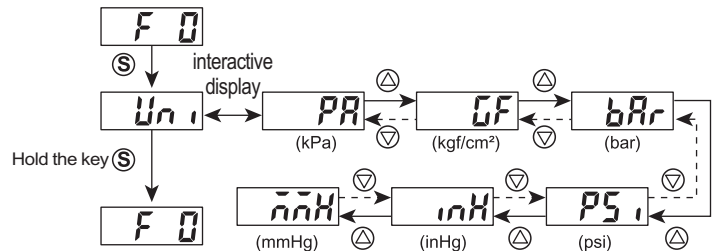


F. Basic Setting Mode

1 Function Selection Mode

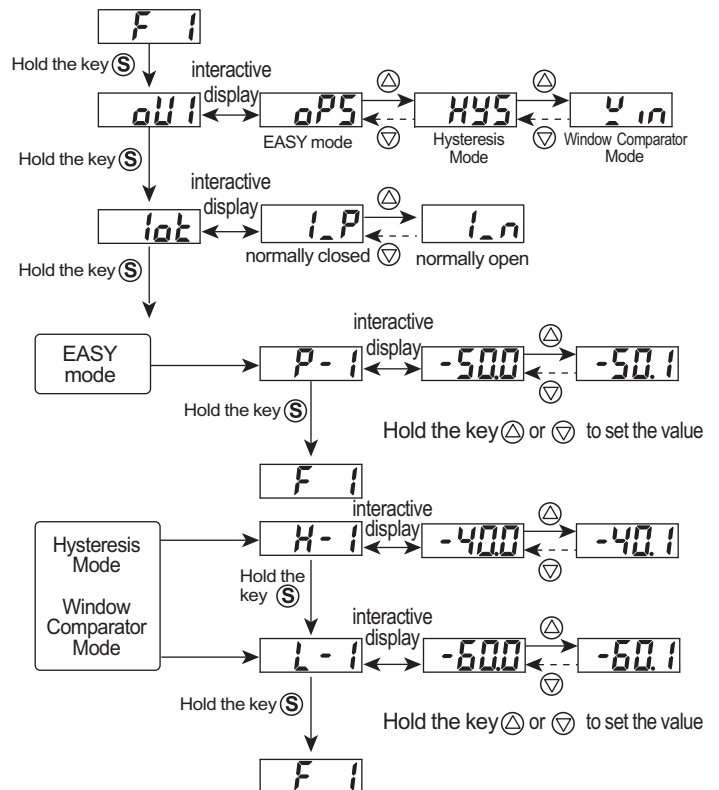


2 Unit setting (F0)



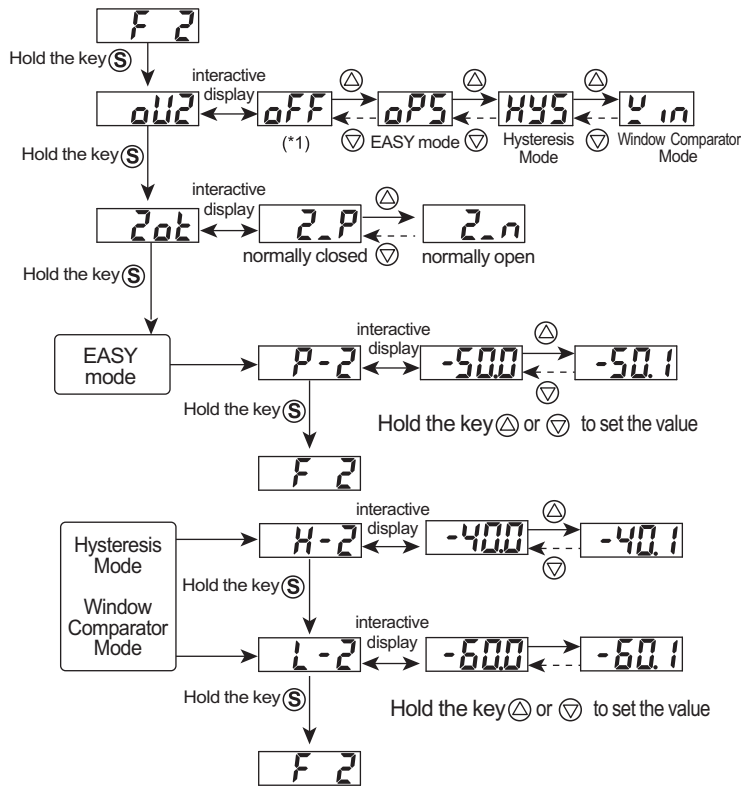
3 OUT1 Form setting (F1)

WP5 series work mode is standard value output



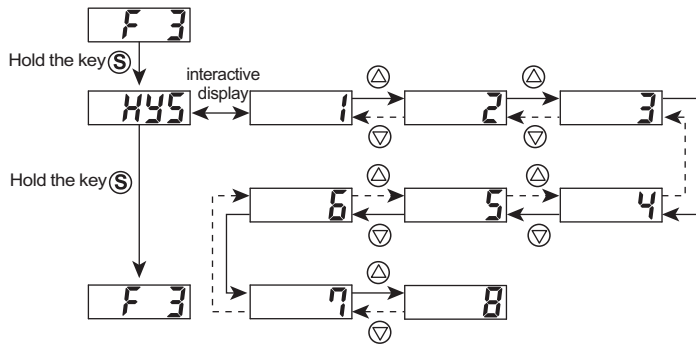
F. Basic Setting Mode

4 OUT2 Form setting (F2) WP5 series work mode is standard value output

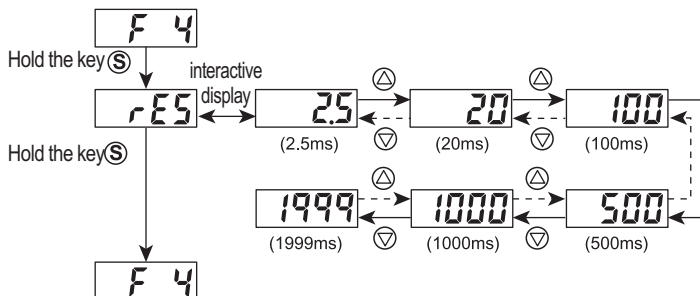


【注】(*1)当OUT2设定为“OFF”直接跳到F2结束。

5 固定应差数值设定(F3)

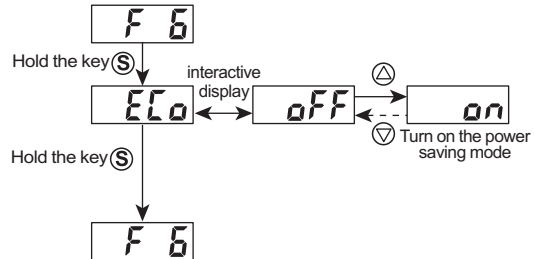


6 Switching reaction time setting (F4)

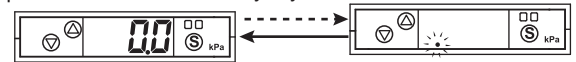


7 Power saving mode (F6)

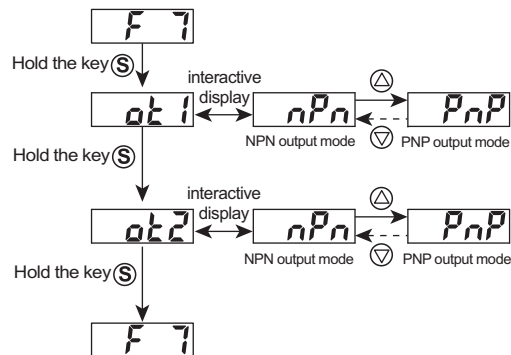
- When the power save mode setting is activated, the pressure transducer enters power save mode after 30 seconds in measurement mode without pressing any keys.
- When the pressure sensor is in power saving mode, the sensor action indicator may be out of sync, but will not affect the sensor action
- When the pressure sensor is in power saving mode, pressing any key will automatically return the pressure sensor to normal measurement mode.



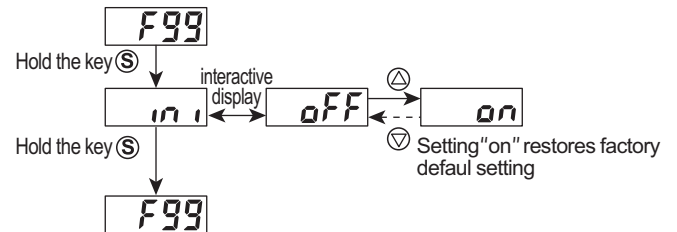
Only the decimal point flickers After 30 seconds without any key action



8 Output mode setting (F7)

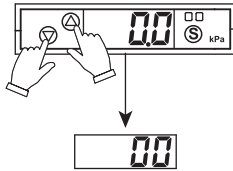


9 Restore factory setting (F99)



G.Zero Setting

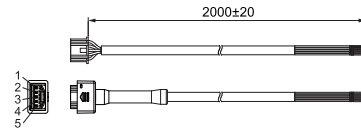
In measurement mode, Press the Δ and ∇ keys simultaneously for more than 3 seconds until "00" appears on the screen.



H.Pressure unit conversion table

From To	kPa	kgf/cm ²	mmHg	psi	bar	inHg
1 kPa	1	0.010197	7.500616	0.145038	0.010000	0.2953
1 kgf/cm ²	98.0665	1	735.559	14.2233	0.980665	28.95979
1 mmHg	0.13332	0.0013595	1	0.019336	0.0013332	0.039370
1 psi	6.895	0.07031	51.7157	1	0.06895	2.036074
1 bar	100.0000	1.01972	750.062	14.5038	1	29.52998
1 inHg	3.386388	0.034530	25.40000	0.491141	0.033863	1

• Power cable (Unit:mm)



PIN NO.	Wire Color
1	DC(+) (BRN.)
2	模拟量输出(1~5V) (ORN.)
3	OUT2 (WHT.)
4	OUT1 (BLK.)
5	DC(-) (BLU.)

OUT

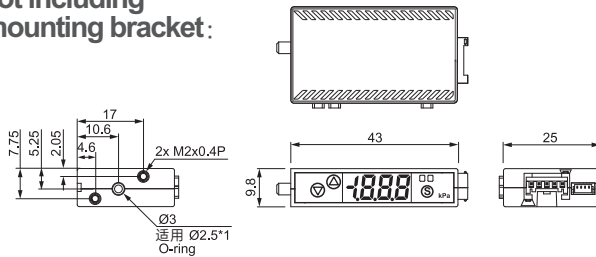
J.Error message description

Misnomer	False	Misstatement	Resolve
Residual pressure error	Err	Zero setting range over $\pm 2\%$ F.S.	Change the pressures around you and then zero in.
Using the wrong pressure	HHH	The pressure used exceeds the upper limit of the pressure setting	Adjust the supply pressure within the operating pressure range.
	LLL	The pressure used exceeds the lower limit of the pressure	
System error	Err4	internal system error Internal data error	Cut off the power and re-power, if it does not return to normal, it needs to be returned to the original factory for analysis

I. Outline

(Unit:mm)

Not including mounting bracket:



Including mounting bracket:

