KP47S Series | Economical Pressure Sensor

PR-0585D 2023/03 Online Version





For your safety, please read the following before using.

- ① Do not use corrosive or flammable gas or liquid with this product.
- ② Please use within the rating pressure range. Do not apply pressure beyond recommended maximum withstand pressure, permanent damage to the pressure sensor may occur.
- ③ Do not drop, hit or allow excessive shock. Even if switch body appears undamaged, internal components may be broken and can cause malfunction.
- ④ Turn power off before connecting wiring. Wrong wiring or short circuit will damage and / or cause malfunction.
- (5) Do not use in environment containing steam or oil vapor.
- ® This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- Wiring for pressure sensor should avoid power source line and high voltage line. If use in the same circuit, noise may cause malfunction.
- Sensors at end-of-life must be disposed of in accordance with E-Waste regulations of the country/region, NOT disposed of with regular garbage.

A SPECIFICATIONS

Pressure	MODEL		KP47S										
Set pressure range (kPa) 0.00 - 1.01 0.00 - 1.01 0.00 - 1.01 0.00 - 1.01 0.00 - 1.01 0.00 - 1.01 0.00 - 1.01 0.00 - 1.01 0.10 0.10	Pressure range type		01	02	03	04	05	06	07	80	09		
Withstand pressure 20 kPa	Rated pressure range (kPa)		0.00 ~ -10.00	0.00 ~ -5.00	0.00 ~ -3.00	0.00 ~ 10.00	0.00 ~ 5.00	0.00 ~ 3.00	-10.00 ~ 10.00	-5.00 ~ 5.00	-3.00 ~ 3.00		
Fluid Filtered air, Non-corrosive / Non-flammable gas Set pressure resolution 0.01 kPa Power supply voltage 12 ~ 24 V DC ± 10 %, Ripple (P-P) ≤ 10 % Current consumption \$30mA (with no load) Switch output \$\frac{NPP}{Max. Load Current: 80 mA}{Max. Load Current: 80 mA}{Max. Supply Voltage: 24 V DC Residual Voltage: 51 V Residual Voltage: 5	Set pressur	Set pressure range (kPa)		0.00 ~ -5.10	0.00 ~ -3.10	0.00 ~ 10.10	0.00 ~ 5.10	0.00 ~ 3.10	-10.10 ~ 10.10	-5.10 ~ 5.10	-3.10 ~ 3.10		
Set pressure resolution 0.01 kPa Power supply voltage 12~24 V DC±10 %, Ripple (P-P) ±10 % Current consumption ≤ 30 mA (with no load) NPN: open collector outputs Max. Load Current: 80 mA Max. Load Current: 80 mA Max. Supply Voltage: ≤ 1 V Switch output Max. Supply Voltage: ≤ 1 V Repeatability ≤ ±0.4 kPa More point set mode Hysteresis mode Window comparator mode Max. Supply Voltage: ≤ 1 V Response time ≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable) Output short circuit protection Yes Display 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate: 0.2, 0.5, 1 sec./ time) Indicator accuracy 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate: 0.2, 0.5, 1 sec./ time) Switch on indicator Orange Indicator 1: OUT1 & Orange Indicator 2: OUT2 Output woltage: 1 ~ 5V ± 2.5%F.S. (within rated pressure range) Switch on indicator Output woltage: 1 ~ 5V ± 2.5%F.S. (within rated pressure range) Cutyput voltage: 1 ~ 5V ± 2.5%F.S. (within rated pressure range) Dispan="2">Endosure I	Withstand p	Withstand pressure		20 kPa									
Power supply voltage 12 ~ 24 V D C ± 10 %, Ripple (P-P) ≤ 10 % Current consumption ≤ 30mA (with no load) Switch output NPN : open collector outputs Max. Load Current: 80 mA Max. Supply Voltage : 24 V D C Residual Voltage : 51 V Repeatability ≤ ±0.4 kPa More point set mode Hysteresis mode Window comparator mode Response time ≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable) Output short circuit protection Yes Display 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate: 0.2, 0.5, 1 sec./ time) Indicator acuracy 5 ± 0.4 kPa Switch on indicator Orange Indicator 1: OUT1 & Orange Indicator 2: OUT2 Analog output (Voltage output) Cluput voltage: 1 ~ 5V ± 2.5% F.S. (within rated pressure range) Linearity: ±1% F.S. Output voltage: 1 ~ 5V ± 2.5% F.S. (within rated pressure range) Linearity: ±1% F.S. Output voltage: 1 ~ 5V ± 2.5% F.S. (within rated pressure range) Linearity: ±1% F.S. Output voltage: 1 ~ 5V ± 2.5% F.S. (within rated pressure range) Linearity: ±1% F.S. Output voltage: 1 ~ 5V ± 2.5% F.S. (within rated pressure range)	Fluid		Filtered air, Non-corrosive / Non-flammable gas										
Current consumption ≤ 30mA (with no load) Switch output NPN : open collector outputs Max. Load Current : 80 mA Max. Load Current : 80 mA Max. Supply Voltage : 30 V DC Residual Voltage : 24 V DC Residual Voltage : 24 V DC Residual Voltage : ≤ 1 V Repeatability ≤ ±0.4 kPa One point set mode Hysteresis mode Window comparator mode Hysteresis mode Window comparator mode Colspan="2">Number of involved in the post of circuit protection Yes Output short circuit protection Yes Display 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate: 0.2, 0.5, 1 sec./ time) Indicator actually (Voltage output) Orange Indicator 1: OUT1 & Orange Indicator 2: OUT2 Analog output (Voltage output) Output voltage: 1 ~ 5V ±2.5%F.S. (within rated pressure range) Linearity: ±1% F.S. Output impedance: about 1 kΩ Environment Environment Environment (Voltage output) Environment Protection (Storage: 35 – 85 % RH (No condensation or freezing) Ambient temp. range Operation (Storage: 35 – 85 %	Set pressur	Set pressure resolution		0.01 kPa									
Switch output	Power supply voltage		12 ~ 24 V DC ± 10 %, Ripple (P-P) ≤ 10 %										
Switch output Max. Load Current: 80 mA Max. Supply Voltage: 24 V DC Residual Voltage: ≤1 V Max. Load Current: 80 mA Max. Supply Voltage: 24 V DC Residual Voltage: ≤1 V Repeatability ≤ ±0.4 kPa More point set mode Hysteresis mode Mythodox comparator mode Response time ≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable) Output solt circuit protection Yes Display 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate: 0.2, 0.5, 1 sec./time) Indicator accuracy ≤ ±0.4 kPa Switch on indicator Output voltage: 1 ~ 5V ±2.5%F.S. (within rated pressure range) Indicator 1: OutT18 CoutT18 Analog output (Voltage output) Output voltage: 1 ~ 5V ±2.5%F.S. (within rated pressure range) Linearity: ±1% F.S. Output voltage: 1 ~ 5V ±2.5%F.S. (within rated pressure range) Analog output (Voltage output) Operation: 0 ~ 50 °C, Storage: -10 ~ 60 °C (No condensation or freezing) Ambient temp: range Ambient humidity range Operation: 0 ~ 50 °C, Storage: -10 ~ 6	Current con	sumption	≤ 30mA (with no load)										
One point set mode Hysteresis mode Hysteresis mode Window comparator mode Adjustable (ж1) Response time ≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable) Output short circuit protection Yes Display 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate : 0.2, 0.5, 1 sec./ time) Indicator accuracy ≤ ±0.4 kPa Switch on indicator Orange Indicator 1: OUT1 & Orange Indicator 2: OUT2 Analog output (Voltage output) Output voltage : 1 ~ 5V ±2.5%F.S. (within rated pressure range) Linearity: ±1% F.S. Output impedance: about 1 kΩ Enclosure IP40 Ambient temp. range Operation : 0 ~ 50 °C, Storage : -10 ~ 60 °C (No condensation or freezing) Ambient humidity range Operation / Storage : 35 ~ 85 % RH (No condensation) Environment (Withstand voltage 1000 ∨ AC in 1-min (between case and lead wire) Insulation resistance ≥ 50 MΩ (at 500V DC, between case and lead wire) Vibration Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z Temperature characteristic ±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C) Port size F1: R1/8	Switch output		Max. Load Current : 80 mA Max. Load Current : 80 mA Max. Supply Voltage : 30 V DC Max. Supply Voltage : 24 V DC) mA 24 V DC				
Hysteresis mode Window comparator mode Response time Seponse time	Repeatability		≤ ±0.4 kPa										
Window comparator mode	Hysteresis	One point set mode	Adjustable (※1)										
Response time ≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable) Output short circuit protection Yes Display 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate : 0.2, 0.5, 1 sec./ time) Indicator accuracy ≤ ±0.4 kPa Switch on indicator Orange Indicator 1: OUT1 & Orange Indicator 2: OUT2 Analog output (Voltage output) Output voltage : 1 ~ 5V ±2.5%F.S. (within rated pressure range) Linearity : ±1% F.S. Output impedance : about 1 kΩ Enclosure IP40 Ambient temp. range Operation : 0 ~ 50 °C, Storage : -10 ~ 60 °C (No condensation or freezing) Ambient humidity range Operation / Storage : 35 ~ 85 % RH (No condensation) Environment Withstand voltage 1000 ∨ AC in 1-min (between case and lead wire) Insulation resistance ≥ 50 MΩ (at 500V DC, between case and lead wire) Vibration Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z Temperature characteristic ±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C) Port size F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8" (BSPP), M5; M5: M5 female thread Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores		Hysteresis mode											
Output short circuit protection Yes Display 4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate : 0.2, 0.5, 1 sec./ time) Indicator accuracy ≤ ±0.4 kPa Switch on indicator Orange Indicator 1: OUT1 & Orange Indicator 2: OUT2 Analog output (Voltage output) Output voltage : 1 ~ 5V ±2.5% F.S. (within rated pressure range) Linearity : ±1% F.S. Output impedance : about 1 kΩ Enclosure IP40 Ambient temp. range Operation : 0 ~ 50 °C, Storage : -10 ~ 60 °C (No condensation or freezing) Ambient humidity range Operation / Storage : 35 ~ 85 % RH (No condensation) Environment Withstand voltage Insulation resistance ≥ 50 MΩ (at 500V DC, between case and lead wire) Vibration Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z Temperature characteristic ±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C) Port size F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8" (BSPP), M5; M5: M5 female thread Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores		Window comparator mode											
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Switch on indicator Orange Indicator 1 : OUT1 & Orange Indicator 2 : OUT2 Analog output (Voltage output) Output voltage : 1 ~ 5V ± 2.5% F.S. (within rated pressure range)	Display		4 digital, 7 segment LCD display (Red/Green/Orange) (Sampling rate : 0.2, 0.5, 1 sec./ time)										
Analog output (Voltage output) Output voltage: 1 ~ 5V ±2.5%F.S. (within rated pressure range) Linearity: ±1% F.S. Output impedance: about 1 kΩ IP40 Ambient temp. range	Indicator accuracy		≤±0.4 kPa										
Analog output (Voltage output) Linearity: ±1% F.S. Output impedance: about 1 kΩ Inclosure IP40 Ambient temp. range Operation: 0 ~ 50 °C, Storage: -10 ~ 60 °C (No condensation or freezing) Ambient humidity range Operation / Storage: 35 ~ 85 % RH (No condensation) Withstand voltage 1000V AC in 1-min (between case and lead wire) Insulation resistance ≥ 50 MΩ (at 500V DC, between case and lead wire) Vibration Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z Temperature characteristic ±0.4 kPa of detected pressure (25 °C) at temp. (Range of 0 ~ 50 °C) Port size F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8"(BSPP), M5; M5: M5 female thread Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores	Switch on ir	Switch on indicator		Orange Indicator 1 : OUT1 & Orange Indicator 2 : OUT2									
Ambient temp. range	Analog output (Voltage output)		Linearity: ±1% F.S.										
Ambient humidity range		Enclosure	IP40										
Environment Withstand voltage Insulation resistance Vibration Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z Shock Temperature characteristic ±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C) Port size Environment Withstand voltage 1000V AC in 1-min (between case and lead wire) Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z 100 m/s² (10 G), 3 times each in direction of X, Y and Z Temperature characteristic ±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C) Port size F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8"(BSPP), M5; M5: M5 female thread Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores	Environment	Ambient temp. range	Operation : 0 ~ 50 °C, Storage : -10 ~ 60 °C (No condensation or freezing)										
Insulation resistance $ \geq 50 \text{ M}\Omega \text{ (at 500V DC, between case and lead wire)} $ $ \text{Vibration} \qquad \text{Total amplitude 1.5 mm or 10 G, 10 Hz} \sim 150 \text{ Hz} \sim 10 \text{ Hz scan for 1 minute, 2 hours each direction of X, Y and Z} $ $ \text{Shock} \qquad \qquad 100 \text{ m/s}^2 \text{ (10 G), 3 times each in direction of X, Y and Z} $ $ \text{Temperature characteristic} \qquad \qquad \pm 0.4 \text{ kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C)} $ $ \text{Port size} \qquad \qquad \text{F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8"(BSPP), M5; M5: M5 female thread} $ $ \text{Lead wire} \qquad \qquad \varnothing 4 \text{ Oil-resistance cable (PVC) - 26 AWG (0.15 \text{ mm}^2) - 4 \text{ cores}} $		Ambient humidity range	Operation / Storage : 35 ~ 85 % RH (No condensation)										
Vibration Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z Shock 100 m/s² (10 G), 3 times each in direction of X, Y and Z Temperature characteristic ±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C) Port size F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8"(BSPP), M5; M5: M5 female thread Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores		Withstand voltage	1000V AC in 1-min (between case and lead wire)										
Shock $100 \text{m/s}^2 (10 \text{G}), 3 \text{times each in direction of X, Y and Z}$ Temperature characteristic $ \pm 0.4 \text{kPa of detected pressure } (25^{\circ}\text{C}) \text{at temp. (Range of 0} \sim 50^{\circ}\text{C})$ Port size $ F1: \text{R1/8", M5}; F2: \text{NPT1/8", \#10-32 UNF}; F3: \text{G1/8"(BSPP), M5}; \text{M5}: \text{M5 female thread} $ Lead wire		Insulation resistance	≥ 50 MΩ (at 500V DC, between case and lead wire)										
Temperature characteristic ±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C) Port size F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8"(BSPP), M5; M5: M5 female thread Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores		Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz ~ 150 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z										
Port size F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8"(BSPP), M5; M5: M5 female thread Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores		Shock	100 m/s² (10 G), 3 times each in direction of X, Y and Z										
Lead wire Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores	Temperatur	Temperature characteristic		±0.4 kPa of detected pressure (25°C) at temp. (Range of 0 ~ 50°C)									
	Port size	Port size		F1: R1/8", M5; F2: NPT1/8", #10-32 UNF; F3: G1/8"(BSPP), M5; M5: M5 female thread									
Weight (with 2 meter lead wire) Approx. 67g	Lead wire		Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm²) - 4 cores										
	Weight (with	2 meter lead wire)	Approx. 67g										

 $[\]times$ 1. Hysteresis value is adjustable within 1 \sim 8 digits for one point set mode and window comparator mode.

B ORDERING INFORMATION

KP47S-01-F1

Output Specifications

01: 1 NPN output + Analog output (1~5V) 02: 2 NPN output

03: 1 PNP output + Analog output (1~5V)

04: 2 PNP output

Pressure Port

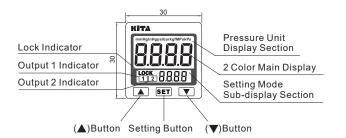
F1: R1/8", M5 F2: NPT1/8", #10-32UNF F3: G1/8"(BSPP), M5

Optional Parts

BT-22: Mounting bracket BT-23: Mounting bracket PA-C: Panel adapter PA-D: Panel adapter +

Front protective lid

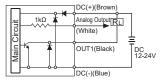
PANEL DESCRIPTION



OUTPUT CIRCUIT WIRING DIAGRAMS

KP47S-01

1 NPN+Analog Output(1-5V)



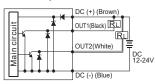
KP47S-03

1 PNP+Analog Output(1-5V)



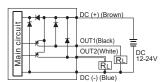
KP47S-02

2 NPN Output

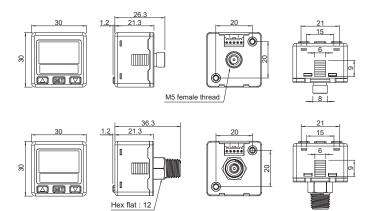


KP47S-04

2 PNP Output



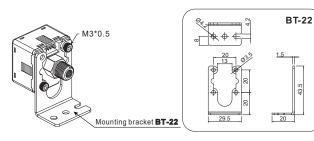
DIMENSIONS

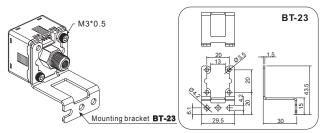


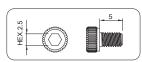
Unit:mm

F OPTIONAL PARTS DIMENSIONS

① Mounting bracket



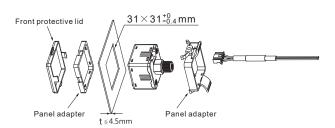




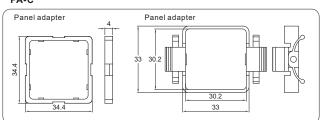
(Caution :

- *1. Screws suitable hexagonal wrench size is 2.5mm.
 *2. Use non-standard screws, the length must
- be limited to 5mm

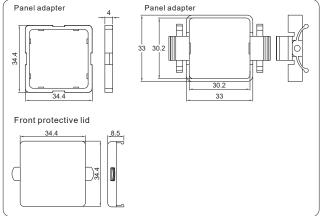
② Panel Mounting



PA-C

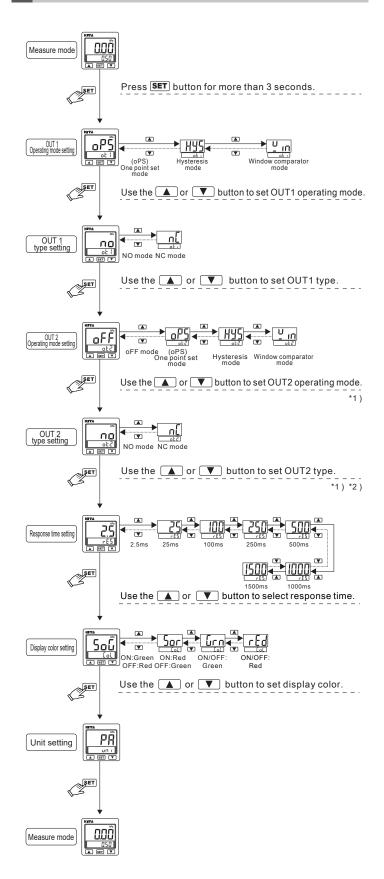


PA-D



Unit:mm

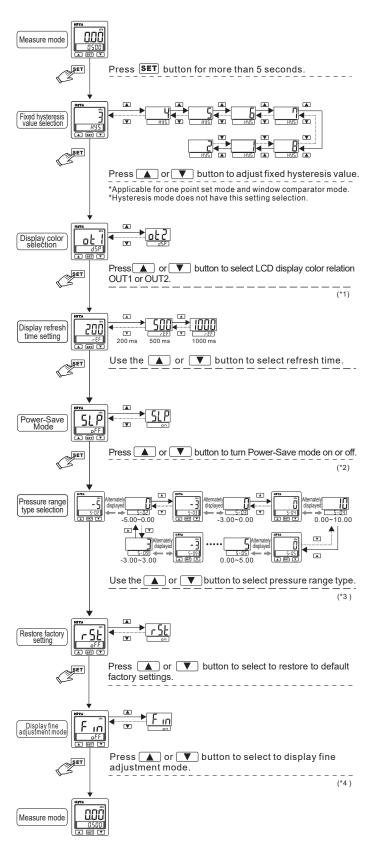
G INITIAL SETTING MODE



[NOTE:]

- *1. This setting mode will not display when output spec. is 1 OUT.
- *2. This setting mode will not display when output 2 is set to oFF.

H ADVANCE SETTING MODE



[NOTE:]

- *1. This setting mode will not display OUT2 when output spec. is 1 OUT.
- *2. When setting is " on ", the power-save mode is active.
- Please refer to the item "M POWER-SAVE MODE" in detailed
- *3. After selecting pressure range type, please return to zero.
 Please refer to the item "N ZERO POINT SETTING" in detailed.
- *4. When setting is " on]", the display fine adjustment mode is active.
 Please refer to the item " OFINE ADJUSTMENT MODE" in detailed.

PRESSURE SETTING MODE (2 OUT)

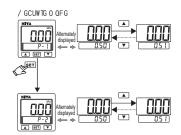
O Setting Condition 1:

OUT 1 mode setting : " off " (One point set mode)
OUT 2 mode setting:
" off " (Not used)

/ GCUWTG O QFG

O Setting Condition 2:

OUT 1 mode setting " oP5" (One point set mode) OUT 2 mode setting: oP5" (One point set mode)



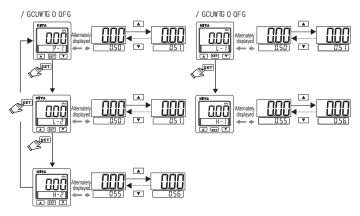
O Setting Condition 3:

OUT 1 mode setting : " oP5 " (One point set mode) OUT 2 mode setting: " หีรีร์ " (Hysteresis mode) " รีก " (Window comparator mode)

O Setting Condition 4:

OUT 1 mode setting: " HY5" (Hysteresis mode) " นูก" (Window comparator mode)

OUT 2 mode setting:



O Setting Condition 5:

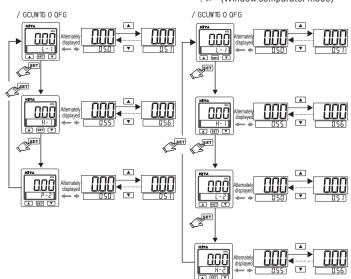
OUT 1 mode setting:
" HY5" (Hysteresis mode)
" Y n " (Window comparator mode)
OUT 2 mode setting:

' Ps " (One point set mode)

O Setting Condition 6:

OUT 1 mode setting:
" H95" (Hysteresis mode)
" " m" (Window comparator mode)
OUT 2 mode setting:

" Hy5 " (Hysteresis mode)
" " เกา " (Window comparator mode)

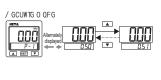


Do not disconnect power when the sub-display and setting value is flashing alternately; otherwise the system cannot store the values

J PRESSURE SETTING MODE (1 OUT)

O Setting Condition 1:

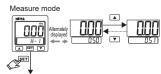
OUT 1 mode setting:
" oPS " (One point set mode)

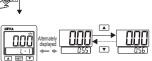


O Setting Condition 2:

OUT 1 mode setting:

" HYS" (Hysteresis mode)
" Unn " (Window comparator mode)





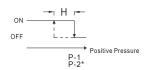
[NOTE ·]

Do not disconnect power when the sub-display and setting value is flashing alternately; otherwise the system cannot store the values.

OUTPUT TYPE

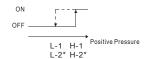
(1) One point set mode:

Н ON OFF Positive Pressure P-1 P-2*

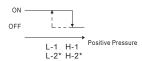


(2) Hysteresis mode:

Normal open mode

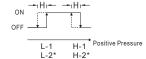


Normal close mode

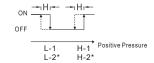


(3) Window comparator mode:

Normal open mode



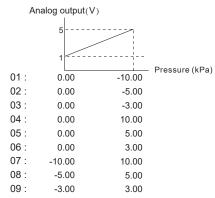
Normal close mode



- [NOTE :]
 *1. Pressure setting value of P-2, L-2 or H-2 won't be shown when output spec.
- *2. In case hysteresis is set at less than or equal to 2 digits, switch output may
- chatter if input pressure fluctuates near the set point.
 *3. When using window comparator mode, the difference between two set points must be greater than the fixed hysteresis, otherwise will cause the switch output to malfunction.

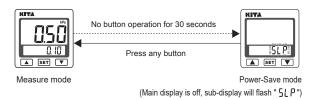
ANALOG OUTPUT DESCRIPTION

Analog output range 1-5V, proportional to the pressure range.



POWER-SAVE MODE

- During Power-Save mode, the main display will turned off if no buttons is pressed after 30 seconds.
- During Power-Save mode, the output LCD may not be synchronize with the output. It is normal and will not affect output operation.
- $\hfill \bigcirc$ Press any button to turn-on main display temporarily.

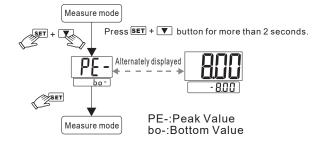


ZERO POINT SETTING

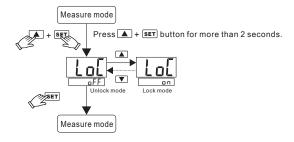
Press the ▲ + ▼ button at the same time until the "00" is shown. Release the button to end zero setting.



PEAK/BOTTOM HOLD FUNCTION



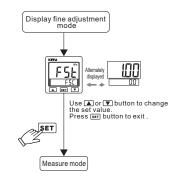
P KEY LOCK/UNLOCK MODE

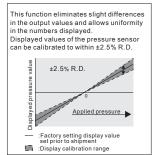


- O Use key lock mode to prevent unauthorized or accidental tampering with the switch setting.
- O When lock mode is selected, panel will display "LOCK".



Q FINE ADJUSTMENT MODE





R.D. (Real Detect)

[NOTE:] 1. Setting resolution is ±0.1% R.D. 2. The signal would be changed with analog output after adjusting.

R China RoHS

	Hazardous Substances									
Part Name	Pb	Hg	Cd	Cr Vi	PBB	PBDE				
Metal Part	Х	0	0	0	0	0				
Plastic Part	0	0	0	0	0	0				
Electronic	Х	0	0	0	0	0				
Cable & Cabling accessories	0	0	0	0	0	0				

This table is made according to SJ/T 11364

used for this part is above the limit as stipulated in GB/T 26572.

O: Indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.

X: Indicates that concentration of hazardous substance in at least one of the homogeneous materials