

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.
- ⑥ This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- ⑦ Wiring for pressure sensor should avoid power source line and high voltage line. If use in the same circuit, noise may cause malfunction.

TYPE		NP43P-□-□ (Positive)	NP43V-□-□ (Vacuum)	NP43C-□-□ (Compound)
Rated pressure range		0,000~1,000MPa	0,0~101,3kPa	-100,0~100,0kPa
Setting pressure range		-0,100~1,000MPa	10,0~101,3kPa	-101,0~101,0kPa
Withstand pressure		1,5MPa		300kPa
Fluid		Filtered air, Non-corrosive / Non-flammable gas		
Set pressure resolution	kPa	—	0,1	
	MPa	0,001	—	
	kgf/cm ²	0,01	0,001	
	bar	0,01	0,001	
	psi	0,1	0,01	
	inHg	—	0,1	
	mmHg	—	1	
Power supply voltage		12 to 24V DC ±10%, Ripple (P-P) 10% or less		
Current consumption		≤ 40mA (With no load)		
Switch output		NPN: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 30V DC Residual voltage: ≤ 1.5V PNP: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 24V DC Residual voltage: ≤ 1.5V		
Repeatability(Switch output)		±0.2% F.S. ±1 digit		
Hysteresis	One point set mode	Adjustable(*1)		
	Hysteresis mode			
	Window comparator mode			
Response time		≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selections)		
Output short circuit protection		Yes		
7 segment LCD display		Two color(Red/Green) main & unit display, Orange sub-display (Sampling rate: 5 times/1sec.)		
Indicator accuracy		±2% F.S. ±1 digit (ambient temperature: 25 ±3°C)		
Switch ON Indicator		Orange (1 & 2 Indicator) OUT1 OUT2		
Analog output (Voltage Output) *2		Output Voltage: 1 to 5V ±2.5% F.S. (within rated pressure range) Linearity: ±1% F.S. Output impedance: about 1kΩ		
Analog output (Current Output) *3		Output Current: 4 to 20mA ±2.5% F.S.(within rated pressure range) Linearity: ±1% F.S. Max.Load impedance: 300Ω at power supply of 12V, 600Ω at power supply of 24V Min.Load impedance: 50Ω		
Environment	Enclosure	IP 40		
	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	50MΩ (at 500V DC, between case and lead wire)		
	Vibration	Total amplitude 1.5mm or 10G, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z		
	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z		
Temperature characteristic		±2.5% F.S. of detected pressure (25°C) at Temp. Range of 0~50°C		
Port size		F1:R1/8", M5; F2:NPT1/8", #10-32UNF; F3: G1/8"(BSPP), M5		
Lead wire		Oil-resistance cable(0.15mm ²)		
Weight		Approx. 80g (with 2 meter lead wire)		

Measure mode

Press **SET** button for more than 5 seconds.

Fixed hysteresis value selection

Press **▲** or **▼** button to adjust fixed hysteresis value.
*Applicable for one point set mode and window comparator mode.
*Hysteresis mode does not have this setting selection.

Display color selection

Press **▲** or **▼** button to select LCD display color relation OUT1 or OUT2.

Power-Save Mode

Press **▲** or **▼** button to turn Power-Save mode on or off. (*1)

Copy Function Setting

Use the **▲** or **▼** to set copy function.
*OnL: When finishing copy, the slave sensor would be locked automatic. (*2)
*Only for NP43□-02-□ and NP43□-04-□ have this setting selection.

Restore factory setting

Press **▲** or **▼** button to select to restore to default factory settings.

Display fine adjustment mode

Press **▲** or **▼** button to select to display fine adjustment mode. (*3)

Measure mode

[NOTE :]

- *1. When setting is "On", the power-save mode would be started. "Off" in detailed.
- *2. when setting "OnL" or "On", the display copy function mode would be started. "Off" in detailed.
- *3. When setting is "On", the display fine adjustment mode would be started. Please refer the item "□" in detailed.

◎ 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.
 ◎ Press any button to turn-on main display temporarily.

Measure mode
 Power-Save mode

(Main display is off, sub-display will flash "5 L P")

NP43□-010-□
2 PNP+Analog(Voltage) output(1-5V)

DC (+) (Brown)
OUT1 (Black)
OUT2 (White)
DC (-) (Blue)

NP43□-030-□
2 PNP+Analog(Voltage) output(1-5V)

DC (+) (Brown)
OUT1 (Black)
OUT2 (White)
DC (-) (Blue)

NP43□-011-□
2 PNP+Analog(Current) output(4-20mA)

DC (+) (Brown)
OUT1 (Black)
OUT2 (White)
DC (-) (Blue)

NP43□-031-□
2 PNP+Analog(Current) output(4-20mA)

DC (+) (Brown)
OUT1 (Black)
OUT2 (White)
DC (-) (Blue)

NP43□-02-□
2 PNP+Copy function

DC (+) (Brown)
Copy function (Orange)
OUT1 (Black)
OUT2 (White)
DC (-) (Blue)

NP43□-04-□
2 PNP+Copy function

DC (+) (Brown)
OUT1 (Black)
OUT2 (White)
Copy function (Orange)
DC (-) (Blue)

N P 4 3 C - 0 1 0 - F 1

Pressure Range

C : Compound (-101.0~-101.0kPa)
V : Vacuum (10.0~-101.3kPa)
P : Positive (-0.100~-1.000MPa)

Output Specifications

010 : 2 NPN+Analog (Voltage) output (1 - 5V)
011 : 2 NPN+Analog (Current) output (4 - 20mA)
02 : 2 NPN+Copy function
030 : 2 PNP+Analog (Voltage) output (1 - 5V)
031 : 2 PNP+Analog (Current) output (4 - 20mA)
04 : 2 PNP+Copy function

Pressure Port

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

Optional Parts

BT-12 : Mounting bracket
BT-13 : Mounting bracket
PA-C : Panel adapter
PA-D : Panel adapter + Front protective lid

Diagram of the NTR-1000 pressure transmitter showing dimensions and labels:

- Dimensions: 30 (width) and 30 (height).
- Labels:
 - Lock Indicator
 - Output 1 Indicator
 - Pressure Unit Display Section
 - 2 Color Main Display
 - Setting Mode Sub-display Section
 - Output 2 Indicator
 - (▲) Button
 - Setting Button
 - (▼) Button

◎ Setting Condition 1 :
 OUT 1 mode setting :
 "oP5" (One point set mode)
 OUT 2 mode setting :
 "oFF" (Not used)
 Measure mode

◎ Setting Condition 2 :
 OUT 1 mode setting :
 "oP5" (One point set mode)
 OUT 2 mode setting :
 "oP5" (One point set mode)
 Measure mode

◎ Setting Condition 3 :
 OUT 1 mode setting :
 "oP5" (One point set mode)
 OUT 2 mode setting :
 "H55" (Hysteresis mode)
 "u_in" (Window comparator mode)
 Measure mode

◎ Setting Condition 4 :
 OUT 1 mode setting :
 "H55" (Hysteresis mode)
 "u_in" (Window comparator mode)
 OUT 2 mode setting :
 "oFF" (Not used)
 Measure mode

◎ Setting Condition 5 :
 OUT 1 mode setting :
 "H55" (Hysteresis mode)
 "u_in" (Window comparator mode)
 OUT 2 mode setting :
 "oP5" (One point set mode)
 Measure mode

◎ Setting Condition 6 :
 OUT 1 mode setting :
 "H55" (Hysteresis mode)
 "u_in" (Window comparator mode)
 OUT 2 mode setting :
 "H55" (Hysteresis mode)
 "u_in" (Window comparator mode)
 Measure mode

[illegible]

Technical drawings of optional parts for the device:

- Top View:** Shows a cable assembly with a connector. Dimensions: 9, 16, 21, 30, 30.
- Side View (Top):** Shows a connector with a cable. Dimensions: 40,3, 25,2. Labels: F1:R1/8", M5; F2:NPT1/8", #10-32UNF; F3:G1/8"(BSPF), M5.
- Side View (Bottom):** Shows a connector with a cable. Dimension: 25,2. Label: Hex flat 12.
- Bottom View:** Shows a terminal block with a cable. Dimensions: 20, 20. Label: 20.

Unit:mm

F. OPTIONAL PARTS DIMENSIONS

① Mounting bracket

BT-12

BT-13

② Panel Mounting

Front protective lid

Panel adapter

Panel adapter

31×31⁺⁰_{-0.4}mm

t ≤ 4.5mm

Panel adapter

Panel adapter

34.4

34.4

4

33

30.2

30.2

33

34.4

8.5

Unit:mm

(1) One point set mode:

Normal open mode		Normal close mode	
Positive/Compound (NP43P/NP43C)	Vacuum (NP43V)	Positive/Compound (NP43P/NP43C)	Vacuum (NP43V)
ON OFF	ON OFF	ON OFF	ON OFF
P-1 P-2	P-1 P-2	P-1 P-2	P-1 P-2
Positive Pressure	Vacuum Pressure	Positive Pressure	Vacuum Pressure

(2) Hysteresis mode:

Normal open mode		Normal close mode	
Positive/Compound (NP43P/NP43C)	Vacuum (NP43V)	Positive/Compound (NP43P/NP43C)	Vacuum (NP43V)
ON OFF	ON OFF	ON OFF	ON OFF
L-1 L-2	L-1 L-2	L-1 L-2	L-1 L-2
H-1 H-2	H-1 H-2	H-1 H-2	H-1 H-2
Positive Pressure	Vacuum Pressure	Positive Pressure	Vacuum Pressure

(3) Window comparator mode:

Normal open mode		Normal close mode	
Positive/Compound (NP43P/NP43C)	Vacuum (NP43V)	Positive/Compound (NP43P/NP43C)	Vacuum (NP43V)
ON OFF	ON OFF	ON OFF	ON OFF
L-1 L-2	L-1 L-2	L-1 L-2	L-1 L-2
H-1 H-2	H-1 H-2	H-1 H-2	H-1 H-2
Positive Pressure	Vacuum Pressure	Positive Pressure	Vacuum Pressure

Analogue output range 1-5V or 4-20mA, proportional to the pressure range.

(Compound)	(Vacuum)	(Positive)
Analogue output(V)	Analogue output(V)	Analogue output(V)
(Compound) Analogue output(mA)	(Vacuum) Analogue output(mA)	(Positive) Analogue output(mA)

Press the ▲ + ▼ button at the same time until the "00" is shown.

Release the button to end zero setting.

Measure mode

Press SET + ▼ button for more than 2 seconds.

Mutually display

PE- Peak Value
bo- Bottom Value

Measure mode

O. KEY LOCK/UNLOCK MODE

Measure mode

Press ▲ + SET button for more than 2 seconds.

LoL Lock mode

LoU Unlock mode

Measure mode

① Use key lock mode to prevent unauthorized or accidental tampering with the switch setting.

② When lock mode is selected, panel will display " * ".

③ Use key lock mode to prevent unauthorized or accidental tampering with the switch setting.

④ When lock mode is selected, panel will display "NTR" and "500".

Measure mode

Press **SET** button for more than 3 seconds.

OUT 1 Operating mode setting

One point set mode (oP5) Hysteresis mode (H45) Window comparator mode (U in)

Use the **▲** or **▼** button to set OUT1 operating mode

OUT 1 type setting

NO mode (no) NC mode (nl)

Use the **▲** or **▼** button to set OUT1 type.

OUT 2 Operating mode setting

oFF mode (off) One point set mode (oP5) Hysteresis mode (H45) Window comparator mode (U in)

Use the **▲** or **▼** button to set OUT2 operating mode

OUT 2 type setting

NO mode (no) NC mode (nl)

Use the **▲** or **▼** button to set OUT2 type.

Response time setting

2.5ms (25) 25ms (25) 100ms (100) 250ms (250) 500ms (500)

1500ms (1500) 1000ms (1000)

Use the **▲** or **▼** button to select response time.

Display color setting

ON: Green (500) ON: Red (500) ON: OFF (500) ON: OFF: Red (500)

Use the **▲** or **▼** button to set display color.

Unit setting

(kPa/MPa) (kgf/cm²) (*) (2) (bar) (psi) (inHg) (mmHg) (*) (3)

Use the **▲** or **▼** button to set desired pressure unit.

Measure mode

- *1. This setting mode will not display when output 2 is set to oFF.
- *2. Pressure unit is MPa by positive & pressure unit is kPa by vacuum and compound
- *3. Only applicable for Vacuum/Compound.

③ Copy function setting can use the master sensor to copy the pressure value to the slave sensors.
 ④ Before copying, please confirm the model of pressure sensor. The function cannot use in the difference mode.
 ⑤ The copy function only can be one-to-one.

[SETTING STEP]

1. Please set the copy function to **[On]** or **[On]** to be on copy condition by master sensor.
 Please refer the copy setting of (H) advance setting mode.
2. Turn power off by slave sensor.
3. Refer the connection way with the master and slave sensor as follows.

4. Turn on power at the same time by master and slave sensor. (* 1)
5. Wait 5 sec., when finishing to convey the data.
 the master sensor display (mutually display) **[CPY]**
 the slave sensor display (mutually display) **[SLV]**
6. When convey the data is fail.
 (Master) sensor displays **[Err]**
 (Slave) sensor displays **[Err]** (* 2)
7. Turn off power and remove the wire connection. If no remove the wire connection, the sensor would be broken.

★If require to copy another slave sensor, please repeat the step ③ to ⑦.
 ★Only for NP43□-02□ and NP43□-04□ have this setting selection.

[NOTE]

- *1. If turn on power is not synchronization, the data cannot be copied.
- *2. When the data convey fails, please confirm the wire connection.
 Then repeat the step ③ to ⑤.

Display fine adjustment mode

Press **SET** button to enter the display fine adjustment mode.

The display shows **FSE** and the current value (e.g., **100**). Use the **Left Arrow** or **Right Arrow** button to change the set value. Press **SET** button to exit.

Measure mode

R,D (Real Detect)

[NOTE] :

1. setting resolution is $\pm 0.1\%$ R,D,
2. The signal would be changed with analog output after adjusting.

The diagram illustrates the R,D (Real Detect) function. It shows a sequence of steps: 1. Pressing the **SET** button to enter the display fine adjustment mode. 2. The display shows **FSE** and the current value (e.g., **100**). 3. Using the **Left Arrow** or **Right Arrow** button to change the set value. 4. Pressing the **SET** button to exit to **Measure mode**. A graph on the right shows **Applied pressure** vs **Displayed pressure value** with a $\pm 2.5\%$ R.D. tolerance band. A legend indicates:
 — Factory setting display value set prior to shipment
 ■ Display calibration range

Error Type	Error code	Error Condition	Troubleshooting
Excess load	Err1	Output 1 load current is more than 125 mA	Turn power off and check the cause of overload current
Current load	Err2	Output 2 load current is more than 125 mA	or lower the current load under 125 mA, then restart.
Residual pressure error	Err3	During zero reset, ambient pressure is over 23% F.S.	Change input pressure to ambient pressure and perform zero reset again.
Applied pressure error	HHH	Supply pressure is exceeds the upper limit of pressure setting.	Adjust the pressure within operating pressure range.
	LLL	Supply pressure is exceeds the lower limit of pressure setting.	
System error	Err4	Internal system error	
	Err5	Internal system error	
	Err6	Internal data error	Turn power off, and then restart. If error condition remains, please return to factory for inspection.
	Err7	Internal data error	
Copy date error	Err8	Please check the model no. and wire connection. Restart to turn on power if no return to normal condition, please return to factory for inspection.	

From	To	kPa	MPa	kgf/cm ²	mmHg	psi	bar	inHg
1 kPa	1	0.001	0.00001	0.000010197	0.00750061	0.000145038	0.00001	0.0002953
1 kPa	1000.000		0.001000	0.010197	7.50061	0.145038	0.010000	0.2953
1 MPa	1000.000		1000	10.197	75.0061	14.5038	10.0000	29.53
1 kgf/cm ²	98.0665	0.980665	0.0980665		735.559	14.2233	0.980665	28.9599
1 mmHg	133.32	0.13332	0.001333	0.00135956	1	0.09113	0.0013332	0.0039370
1 psi	68.949	0.68949	0.006895	0.070301	51.7157		0.06895	2.036074
1 bar	1000.000	0.100000	1.0197	750.002	14.5038		1.00000	29.5298
1 inHg	3386.38	3.38638	0.03386	0.034354	25.4000	4.01411	0.033863	1

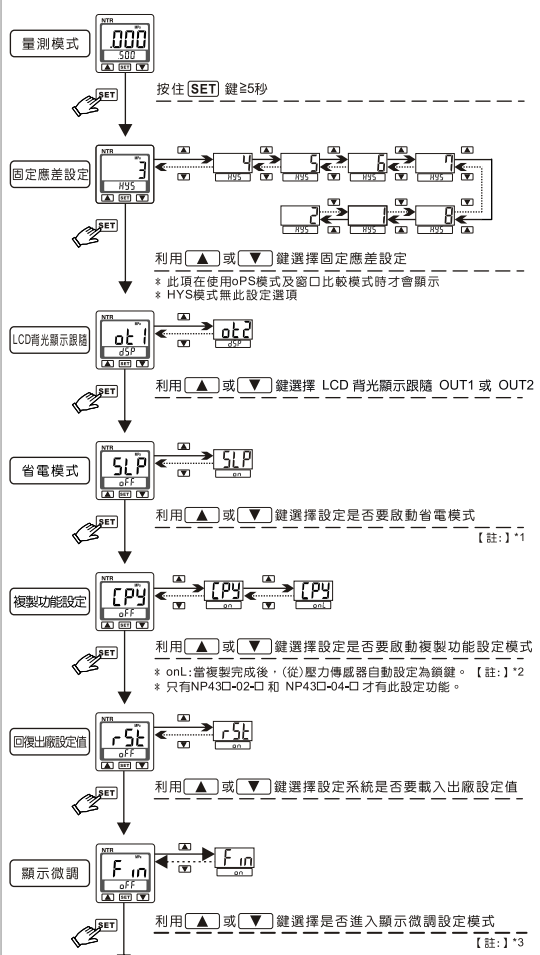
數位顯示型壓力傳感器 NP43 系列

- 使用本產品應注意事項：
- ① 禁止使用於腐蝕性及易燃性的氣體或任何液體。
 - ② 請在規格表內的額定壓力範圍內使用，若供給之壓力超過最大耐壓會使本產品損壞，導致功能異常。
 - ③ 裝設本產品時，請勿用力推擊或從高處掉落，即使外觀未受損害也可能因內部零件損壞而導致功能異常。
 - ④ 在連接本產品於電路控制系統時，應先關掉電源，因為錯誤的接線或短路會導致本產品損壞。
 - ⑤ 本產品請勿使用在有水氣或油霧的環境中。
 - ⑥ 本系列產品並未有防爆驗證，請勿使用於空氣中含有爆炸性氣體或粉塵環境中。
 - ⑦ 不可將連接本產品的導線與電源線或其它高壓電線綁在一起，以避免雜訊的干擾，而影響到本產品的功能。

A. 規格表				
型號		NP43P-□-□ (正壓)	NP43V-□-□ (負壓)	NP43C-□-□ (連成壓)
額定壓力範圍		0.000~1.000MPa	0.0~101.3kPa	-100.0~100.0kPa
設定壓力範圍		-0.100~1.000MPa	10.0~101.3kPa	-101.0~101.0kPa
耐壓力		1.5MPa	300kPa	
適用氣體		空氣，非腐蝕性，不可燃性		
壓力單位 設定最小刻度	kPa	—	0.1	
	MPa	0.001	—	
	kgf/cm ²	0.01	0.001	
	bar	0.01	0.001	
	psi	0.1	0.01	
	inHg	—	0.1	
	mmHg	—	1	
電源電壓		12 to 24V DC ±10%，漣波峰值 10% 以下		
消費電流		≤40mA 以下(無負載時)		
傳感器輸出		2 NPN 開集極輸出 最大負載電流：125mA 最大供應電壓：30V DC 內部壓降：1.5V 以下		
		2 PNP 開集極輸出 最大負載電流：125mA 最大供應電壓：24V DC 內部壓降：1.5V 以下		
重複精度		±0.2% F.S, ±1 digit 以下		
應差	oPS 模式			
	應差模式	可調 *1		
	窗口比較模式			
反應時間		≤2.5ms (預防誤動作功能：25ms, 100ms, 250ms, 500ms, 1000ms, 1500ms 可選擇)		
輸出短路保護		有		
顯示		3色(紅/綠/藍)顯示(取樣率：5次/秒)		
顯示精度		±2% F.S, ±1 digit(在適溫溫度：25 ±3℃)		
動作顯示燈		橙色 (1&2 指示燈) OUT1 OUT2		
線性類比輸出 (電壓輸出) *2		輸出電壓：1~5V ±2.5% F.S.(額定壓力範圍下) 直線性：±1% F.S. 輸出阻抗約1kΩ		
線性類比輸出 (電流輸出) *3		輸出電流：4~20mA ±2.5% F.S.(額定壓力範圍下) 直線性：±1% F.S. 負載阻抗最大：300Ω 在電壓為12V， 600Ω 在電壓為24V 負載阻抗最小：50Ω		
耐環境	防護等級	IP 40		
	週圍溫度	動作：0~50℃，保存：-10~60℃(無水露及不結冰狀況下)		
	週圍濕度	動作及保存：35~85% RH(無水露)		
	耐電壓	1000V AC 1分鐘(引線及塑膠外殼間)		
	絕緣阻抗	50MΩ以上(500V DC)(引線及塑膠外殼間)		
	耐振動	複振幅1.5mm，每1分鐘10Hz~55Hz~10Hz， X、Y、Z 每個方向各2小時		
耐衝擊	100m/s ² (10G) X、Y、Z 每個方向各3次			
溫度特性		±2.5% F.S.，比較參考溫度25℃(0~50℃溫度範圍內)		
接管口徑		F1:R1/8", M5; F2:NPT1/8", #10-32UNF; F3: G1/8"(BSPP), M5		
電線規格		耐油PVC電線(0.15mm ²)		
重量		約 80g (包含2公尺的電線)		

- *1. 單點設定模式及窗口比較模式可調整1-8digits的應差。
*2. 選擇電壓輸出時就無電流輸出，二種輸出型態僅可選擇其一。
*3. 選擇電流輸出時就無電壓輸出，二種輸出型態僅可選擇其一。

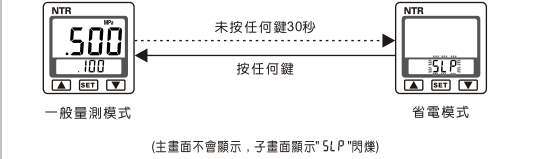
H. 進階設定模式



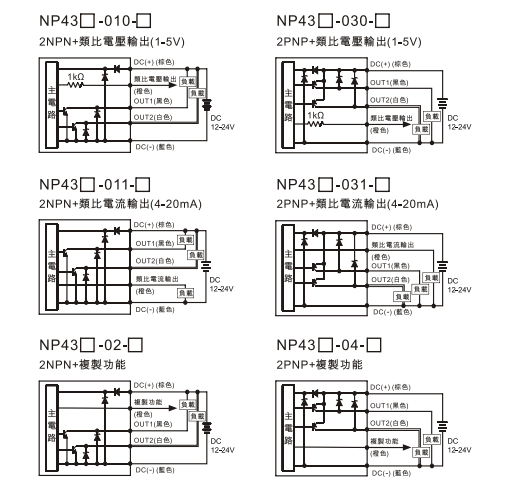
- 【註：】
*1. 當設定為 "on" 時，即啟動省電模式，詳細說明請參考說明書第 10 頁。
*2. 當設定為 "on" 或 "off" 時，即進入顯示複製功能設定模式，詳細說明請參考說明書第 10 頁。
*3. 當設定為 "on" 時，即進入顯示微調的設定模式，詳細說明請參考說明書第 10 頁。

I. 省電模式

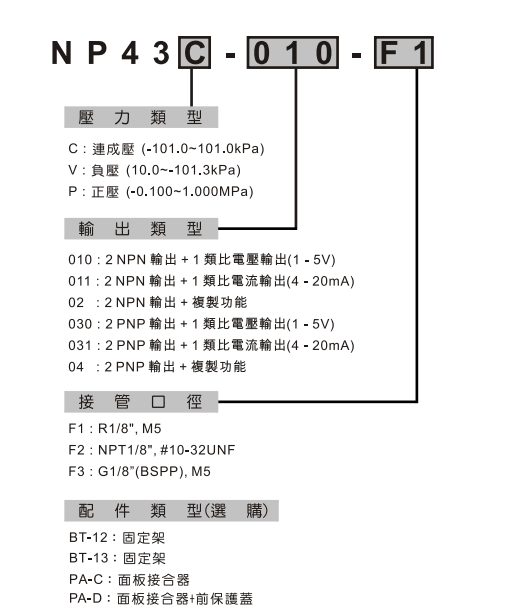
- 當啟動省電模式設定時，壓力傳感器在量測模式下，未按任何鍵30秒後，壓力傳感器會進入省電模式。
- 當壓力傳感器處於省電模式時，傳感器動作指示燈可能會有不同步的現象，但不會影響傳感器的動作。
- 當壓力傳感器處於省電模式時，按下任何鍵，壓力傳感器會自動回到一般量測模式。



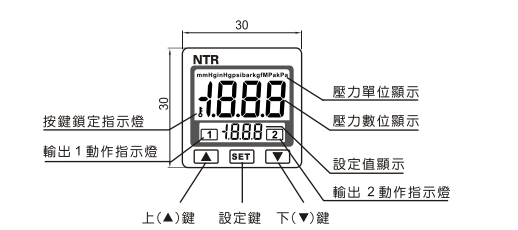
B. 輸出電路接線圖



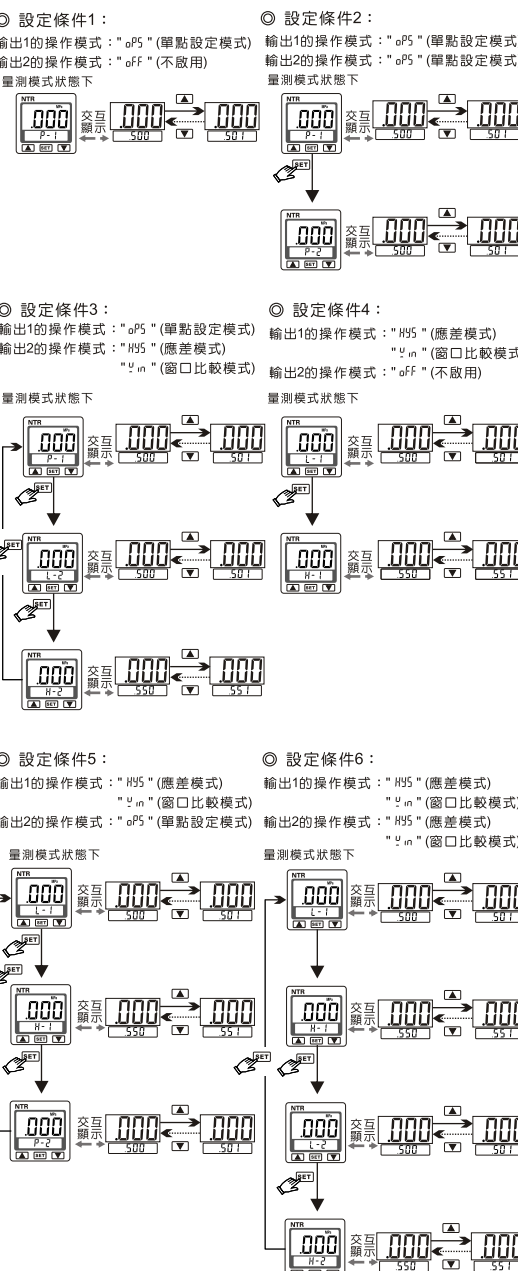
C. 型號規格說明



D. 面板說明

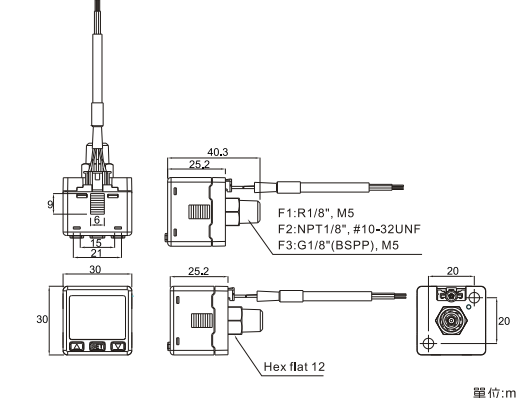


J. 壓力設定模式

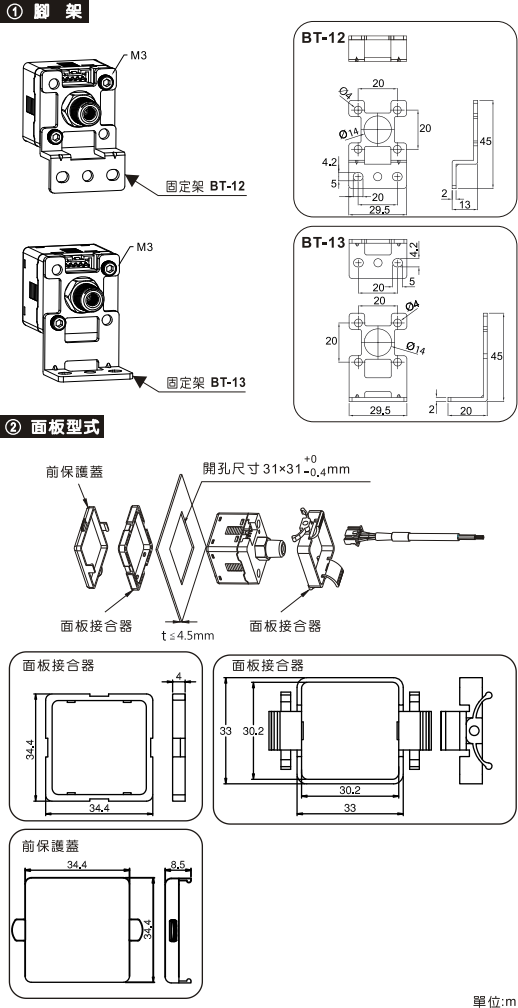


- 【註：】
當子畫面處於顯示設定項及設定數值互閃時，請勿關閉電源，否則系統將不會儲存使用者設定之數值。

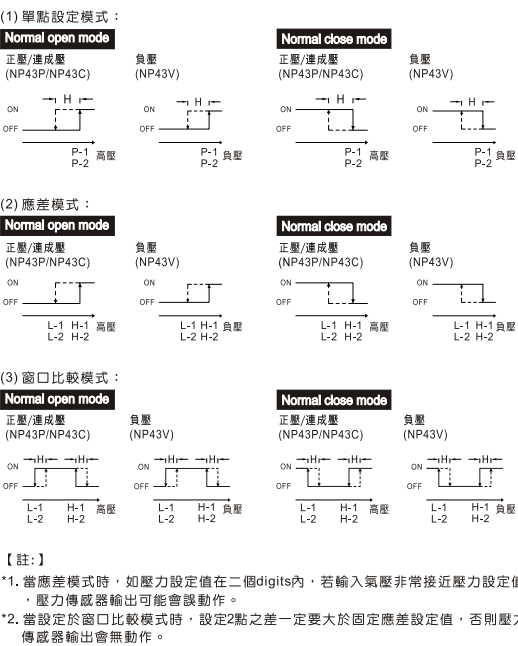
E. 外觀尺寸



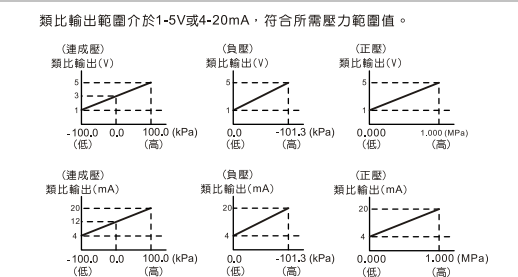
F. 配件類型／尺寸圖



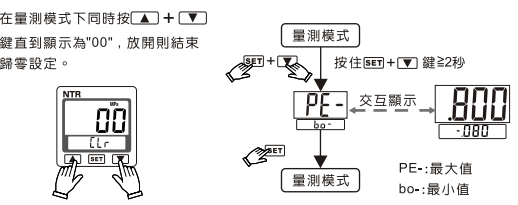
K. 輸出型態



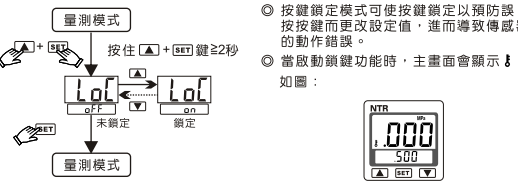
L. 線性類比輸出說明



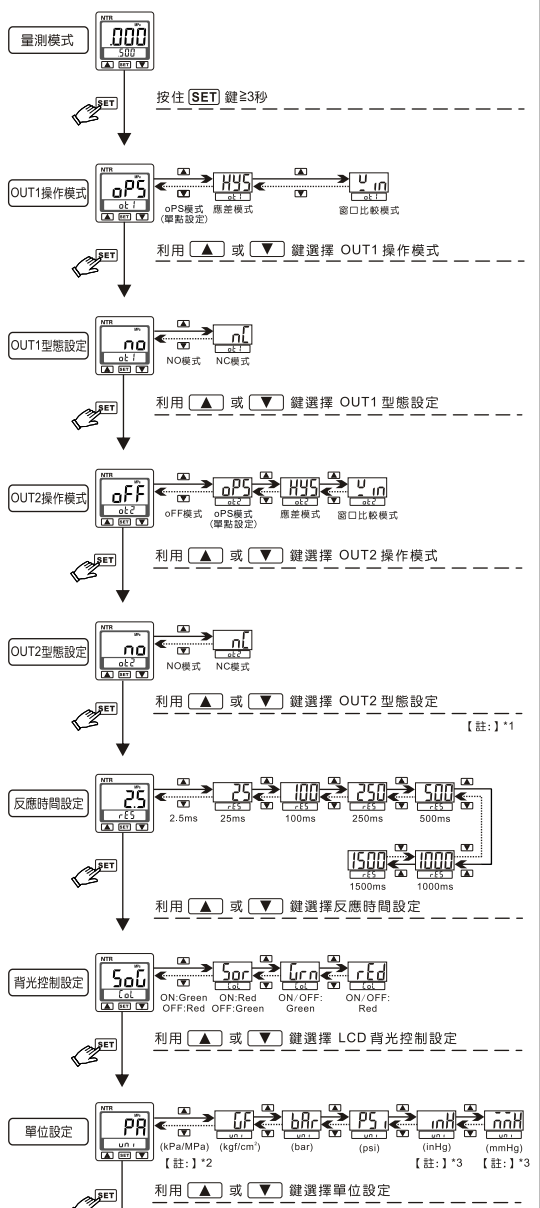
M. 歸零設定



O. 按鍵鎖定功能

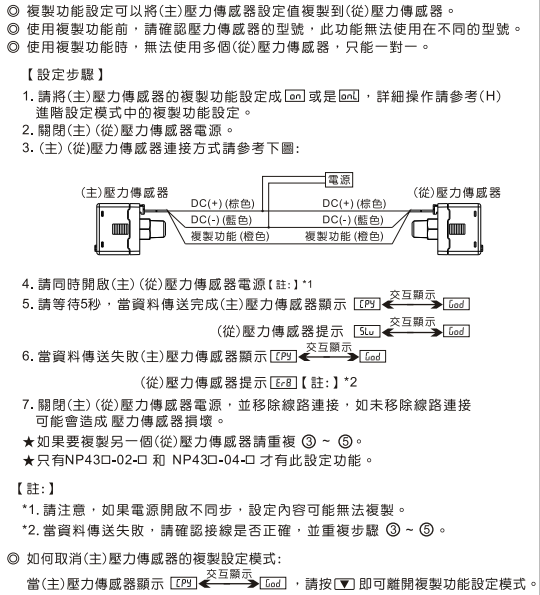


G. 基本設定模式

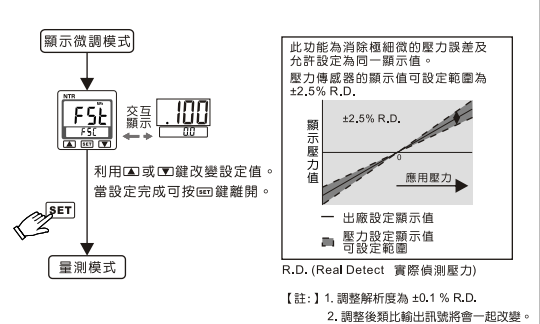


- 【註：】
*1. 當OUT2操作模式為OFF時，就不會有此設定項。
*2. 正壓單位為MPa，負壓及連成壓為kPa。
*3. 此單位僅適用於負壓及連成壓。

P. 複製功能設定



Q. 顯示微調功能



R. 錯誤訊息說明

錯誤名稱	錯誤顯示	錯誤說明	解決
過電流錯誤	Err1	輸出1負載電流超過125mA	斷掉電源，檢查負載電流過大的原因或將負載電流降至125mA以內再重新啟電源
殘留資料錯誤	Err2	輸出2負載電流超過125mA	改變週邊壓力之後，再重新作歸零
使用壓力錯誤	Err3	零值設定範圍超過 ±3% F.S.	供給壓力請調整在使用壓力範圍內
系統錯誤	Err4	內部系統錯誤	切斷電源並重新供電若沒回覆正常狀態則需送回原廠分析
	Err5	內部系統錯誤	
	Err6	內部資料錯誤	
	Err7	內部資料錯誤	
複製資料錯誤	Err8	請檢查型號及接線是否正確，並重新供電若沒回覆正常狀態，則需送回原廠分析	

S. 壓力單位轉換表

	Ta	Pa	kPa	MPa	kgf/cm ²	mmHg	psi	bar	inHg
1 Pa	1	0.001	0.000001	0.000000001	0.0203214	0.00750062	0.000145038	0.00001	0.00295295
1 kPa	1000.000	1	0.001000	0.010197	7.500616	0.145038	0.010000	0.295295	2.95295
1 MPa	1000000	1000	1	10.197	7500.616	145.038	10	295.295	2952.95
1 kgf/cm ²	98066.5	98.0665	0.0980665	0.980665	735.559	14.2233	0.980665	28.9578	289.578
1 mmHg	133.322	0.133322	0.00133322	0.0133322	0.0133322	0.00133322	0.00133322	0.0393701	0.393701
1 psi	6895	6.895	0.006895	0.07031	51.7157	1.75157	0.06895	2.036074	20.3607
1 bar	100000.0	100.000	0.100000	1.01972	750.062	14.5038	1	29.5298	295.298
1 inHg	3386.388	3.386388	0.003386	0.034530	25.4000	0.491141	0.033863	1	