



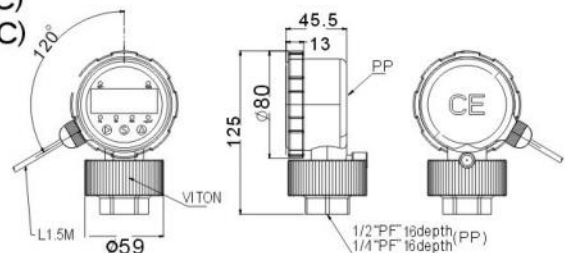
LCD / LED / PP
DIAPHRAGM PRESSURE GAUGE
LCD/LED/PP 隔膜壓力計



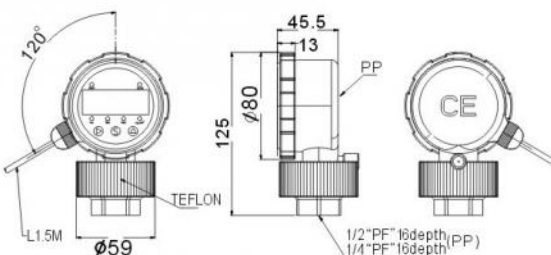
LED / PP 隔膜壓力計

LED PP DIAPHRAGM PRESSURE GAUGE

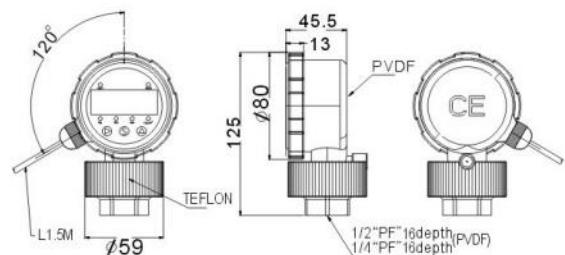
- DIAMETER : 2.5"
面 徑 : 63(mm)
- PRESSURE RANGE : 0~5 . 0~10 . 0~15Kg/cm²(bar.Mpa.Psi)
壓力範圍 : 0~5 . 0~10 . 0~15Kg/cm²(bar.Mpa.Psi)
- RESOLUTION LIMITING : 0.1PSI , 0.01BAR , 0.001MPA , 0.01Kg/cm²
解析度 : 0.1PSI , 0.01BAR , 0.001MPA , 0.01Kg/cm²
- POWER : DC 10-30V
電源電壓 : DC 10-30V
- LOW CONSUMPTION : Less than 30mA
消耗電流 : 小於 30mA (無負載)
- NPN/PNP OUTPUT : 100mA(Max)
NPN/PNP輸出 : 100mA(Max)
- NPN/PNP OVERLOAD PROTECTION : 180mA(Min)
NPN/PNP輸出過載保護 : 180mA(Min)
- OVERLOAD PROTECTION RESPONSE TIME : Less than 5mS
過載保護反應時間 : 小於 5mS
- 4~20mA ACCURACY : 1.5%F.S
4~20mA輸出精度 : 1.5%F.S
- CASING & BEZEL : PP , PVDF
殼、框 : 耐衝擊PP, 氟化樹脂
- CONNECTION : 1/4PT , 1/2PT FEMALE MOUNT or OTHER PANEL MOUNT
牙 口 : 標準1/4PT, 1/2PT 內牙或其他內外牙
- DIAPHRAGM : PP or TEFLON or PVDF
隔 膜 : PP或鐵氟龍或氟化樹脂
- CAPSULE : VITON or TEFLON
膜 片 : 氟素橡膠或鐵氟龍
- ACCURACY : 1%F.S(@22~28°C) , 2%F.S(@-10~60°C)
精 確 度 : 1%F.S(@22~28°C) , 2%F.S(@-10~60°C)
- TEMPERATURE RANGE : -10°C to +60°C
使用溫度範圍 : -10°C to +60°C
- WATERPROOF : IP65
防 水 等 級 : IP65



SS-CM19/25



SS-VEM19/25



SS-EM19/25

LED 操作說明

LED Display Instruction

● **Button Function:**

SW1 (Left): Displacement Button / Lock Button
SW2 (Center): Unit Change / Mode Set
SW3 (Right): Adjust Button / Unlock Button

● **General Mode :**

1. Press SW2 one time can change Unit.
2. Press SW1 & SW3 over 3 seconds the pressure will return to zero.
3. Press SW1 over 3 seconds will enter setting mode.
4. Press SW1 over 3 seconds the LED will display “Loc” , the entire button will be locked.
(All the function button will be useless)
5. Press SW3 over 3 seconds the LED will display “unL” , the entire button will be unlocked.

● **Setting Mode:**

1. Under usually using press mode button over 3 seconds will enter setting mode.
(If the button be locked, please unlock it at first.)
2. Press SW3 button setting Out1 or Out2, please press SW2 for sure.
3. Press SW3 button setting Hys mode. (Hysteresis mode, like as photo 1 & photo 2.)
Then press SW2 for sure.
4. Through SW3 button select NC or NO. Then press SW2 for sure.
5. Press SW3 select output PNP or NPN. Then press SW2 for sure.
6. Setting high pressure value HP. The display will show “HP” & setting value by turns.
If you would not like to change setting value, please press SW2 to skip.
If you would like to change setting value, please press SW3, the display will show the setting value only. And the left value (the high value) will flicker.
You can adjust it by follow steps:
 - a. SW3 can change number 0~9. (0~9 move to circulate)
 - b. SW1 displacement button will skip to next number. The number will flicker.
(You can press SW1 to return to the left value)
 - c. Please press SW2 for sure, when all the setting value is complete.
7. Setting low pressure value LP. The display will show “LP” & setting value by turns.
If you would not like to change setting value, please press SW2 to skip.
If you would like to change setting value, please press SW3, the display will show the setting value only. And the left value (the low value) will flicker.
You can adjust it by follow steps:
 - a. SW3 can change number 0~9. (0~9 move to circulate)
 - b. SW1 displacement button will skip to next number. The number will flicker.
(You can press SW1 to return to the left value)
 - c. Please press SW2 for sure, when all the setting value is complete.
8. If the setting value is unusual the display will show “Err” about 3 seconds.
Then it will return to step 6.
If the setting value is correct the display will show “Load” . Then please save all the value and return to general mode. It will show the pressure value.

LED 操作說明

LED Display Instruction

● 按鍵功能：

SW1(左):移位鍵/LOCK 鍵

SW2(中):單位切換鍵/模式設定

SW3(右):調整鍵/UNLOCK 鍵

● 一般模式：

1. 每按一下SW2,可改變單位.
2. 按住SW1與Sw3 3秒以上,壓力歸零.
3. 按住SW1 3秒以上,進入設定模式
4. 按住SW1 3秒以上, LED 顯示” Loc” 所有按鍵鎖住.(所有按鍵功能失效)
5. 按住SW3 3秒以上, LED 顯示” unL” 所有按鍵解鎖.

● 設定模式：

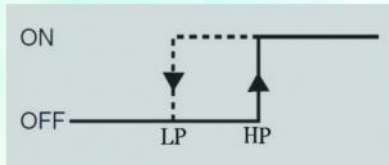
1. 在一般狀態下長按模式設定鍵 3 秒以上，進入模式設定(若按鍵鎖住,需先解鎖)
2. 按一下SW3選擇欲設定Out1 (第一組)或Out2 (第二組)，然後按SW2確認.
3. 接著可由SW3設定 Win(Windows comparator mode, 如圖一及圖二) 模式, 或Hys(Hysteresis mode, 如圖三及圖四) 模式, 然後按SW2確認.
4. 接著可由SW3 選擇NC 或NO, 然後按SW2確認.
5. 接著可由SW3 選擇PNP或NPN輸出, 然後按SW2確認.
6. 接著設定高壓值HP,顯示器會顯示” HP” 與設定值,交替顯示.
若不要改變設定值,可按SW2跳過.
若要改變設定值,可輕按一下SW3,顯示器會只顯示設定值,且最左位(高位)數字會閃爍.
修改方式如下:
 - a. SW3可改變0~9的數字. (0~9循環)
 - b. SW1移位鍵,會跳至下一位數,該位會閃爍.(當在最右位時按SW1,回到最左位數)
 - c. 若其設定值完成,可按SW2確認.
7. 接著設定低壓值LP,顯示器會顯示” LP” 與設定值,交替顯示.
若不要改變設定值,可按SW2跳過.
若要改變設定值,可輕按一下SW3,顯示器會只顯示設定值,且最左位(高位)數字會閃爍.
修改方式如下:
 - a. SW3可改變0~9的數字. (0~9循環)
 - b. SW1 移位鍵,會跳至下一位數, 該位會閃爍. (當在最右位時按SW1,回到最左位數)
 - c. 若其設定值完成,可按SW2確認.
8. 若設定值異常會” Err” 約 3 秒,然後回到步驟 6.
若設定值正確會顯示” LoAd”,儲存所有設定參數,並回到一般模式,顯示壓力值.



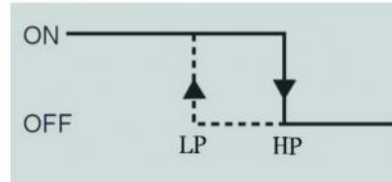
LED / PP 隔膜壓力計

LED P.P DIAPHRAGM PRESSURE GAUGE

圖一. Hysteresis mode (NOType)



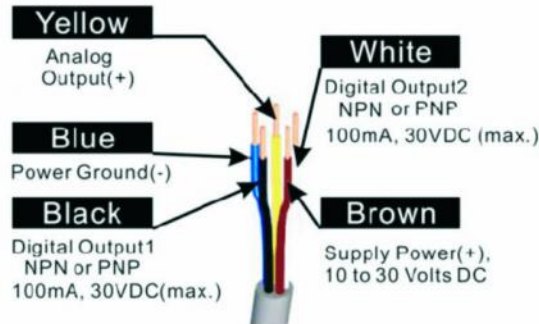
圖二. Hysteresis mode (NCType)



Hysteresis mode 壓力值的設定條件: a. $PH \geq PL$
 b. PH 或 $PL \leq 1.05 F.S$

※當NPN/PNP輸出狀態為ON時, 其輸出電流超過過載保護電流, 輸出自動變OFF狀態, 直至電流低於過載保護電流, 才會回復正常運作。

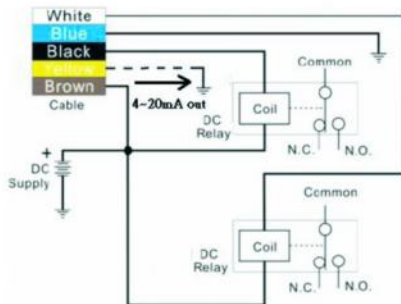
● 接線定義:



※Analog output (4~20mA) 不使用也一定要和Power Geound 連接

● 接線圖:

1. NPN mode



2. PNP mode

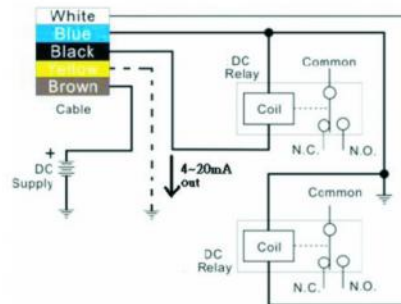


Photo 1. Hysteresismode (NOType)

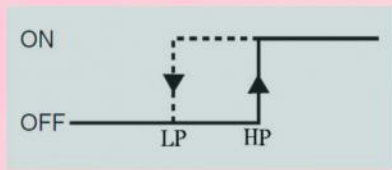
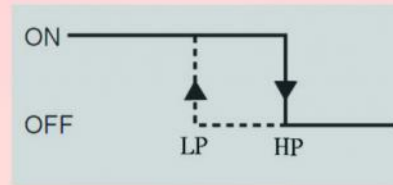


Photo 2. Hysteresismode (NCType)

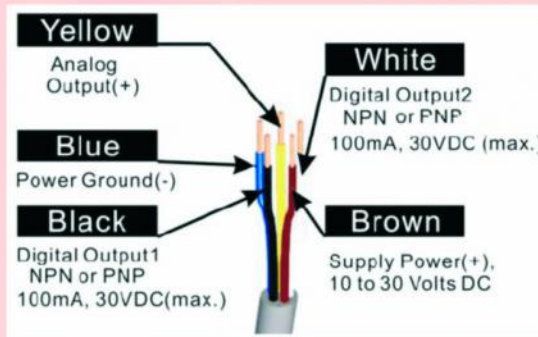


Hysteresis mode pressure value setting terms:

- a. $PH \geq PL$
- b. $PH \text{ 或 } PL \leq 1.05 \text{ F.S}$

※ If the output changed to be OFF, it means the Electric is overload under NPN/PNP general using ON processing. It will returns to normal operation if the Electric returns to normal.

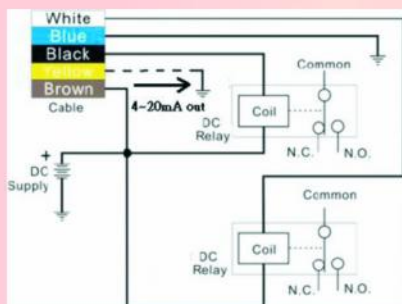
Wiring Definition:



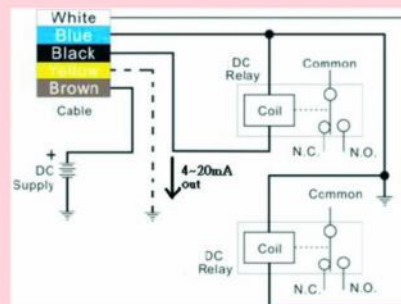
※ Analog output (4-20mA) should be connected with Power Geound. Even though it is not in processing.

Connection Diagram:

1. NPN mode



2. PNP mode



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