CHELIC

FPG 系列
模組型-差壓式流量計
操作說明書

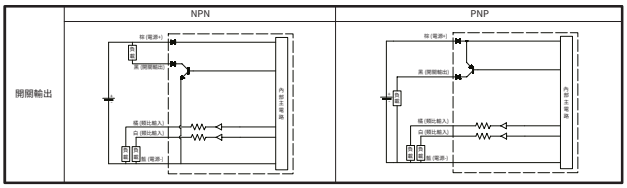
FPG *Series - Flow Meter User Manual*

繁 En

FPG 訂購稱呼代號 Code of Order

FP	G	U2	V	N	S	C
機種仕樣 Model	機種型號 Model number	適用調理系列	監控輸出 Monitor Output	開關輸出 Monitor output	電纜接頭 Cable connector	固定架
數字式流量傳感器 (差壓型)	G 模組型	規格 Model / 記號 Mark / 流量 Flow range FPG U2 1000L/min FPG U3 2000L/min FPG U4 3000L/min	V 電壓型DC1~5V DC0~10V Analog output DC1~5V DC0~10V A 電流型DC4~20mA Current type DC4~20mA RS RS485	N NPN型 NPN Series P PNP型 PNP Series	- 無電纜 S 直通型1.5m Straight type1.5m	- 無固定架 C 固定架

輸出選擇

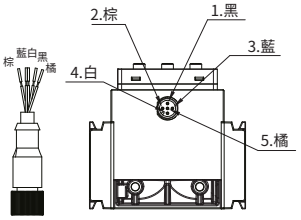


確認開關訊號NPN或PNP型，並依需求選擇

輸出訊號	電壓型	DC1-5V
	電流型	DC4-20mA
輸出阻抗	電壓型	50kΩ
	電流型	300Ω

輸出訊號具電壓及電流，請確認輸出訊號，並依需求選擇

FPG電纜線材規格表



RS485通信規格

PIN	顏色	內容
01	黑	開關輸出 switch output : max:50mA
02	棕	電源Power＋(24V)
03	藍	電源Power－(GND)
04	白	RS485-
05	橘	RS485+

電壓/電流輸出規格

PIN	顏色	內容	
01	黑	開關輸出 switch output : max:50mA	
02	棕	電源Power＋(24V)	
03	藍	電源Power－(GND)	
04	白	壓力	電壓輸出Voltage output：1-5V 電流輸出Load impedance：4-20mA
05	橘	流量	電壓輸出Voltage output：1-5V 電流輸出Load impedance：4-20mA

使用安全事項與警告

使用安全警告與注意事項分為「危險」、「警告」、「注意」。

危險: 表示如果進行操作，有可能導致死亡或重傷的危險內容並且危險發生時的緊急性(緊急程度)高的情況。
警告: 表示如果進行錯誤操作，有可能導致死亡或重傷的危險內容。
注意: 表示如果進行錯誤操作，有能導致輕傷或財物損失的危險內容。

關於使用流體

危險

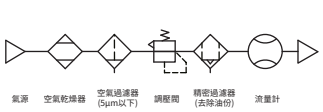
- 嚴禁用於易燃性氣體。

注意

- 請使用不含氯、硫磺、酸等腐蝕成分的乾燥氣體，且不含灰塵及油霧的乾淨氣體。
- 使用壓力範圍，請參考規格書之額定範圍內使用，否則會影響感測器的使用壽命。
- 含大量冷凝水的壓縮空氣會造成本產品或其他氣動元件不良的原因，請設置後冷卻器、空氣乾燥器、冷凝水收集器等對策。
- 由於空壓機產生的過多碳粉會附著在本產品內部，成為動作不良的原因。
- 各系列的耐壓性不同，選擇時請多加注意。
- 請遵守測定流量、使用壓力。(使用規範以上的壓力會造成產品損壞)

警告

- 不能作為商用儀表使用。
- 不適用於計量法，因此請不要用於商業交易，請做為工業用感測器使用。
- 除適用流體之外的流體由於不能保證其精度，因此請不要使用。
- 請先確認調壓閥調整後，再讓流體流動。(以免施加超過額定壓力的限制，導致損壞)
- 感測器的一次端使用閥時，請使用禁油規格的閥，否則，可能因潤滑油飛濺造成感測器失靈或破損。
- 使用碳酸器等液化氣體時，請務必氣化後使用，因為液化的氣體進入本產品可能導致產品故障。
- 流體中可能參雜異物，請將過濾器設置於前端。(建議空氣迴路)



關於佈線

危險

- 電源電壓及輸出請使用規格電壓。
(如施加規格以上之電壓，則可能造成本產品受損或觸電，最嚴重可能會釀成火災)

警告

- 請勿負載短路。
(本產品有加設過載保護，但無法保護所有錯誤配線，所以請多加注意配線)
- 請確認配線上的絕緣性。
- 請勿把電力線與動力線合為同一配線。
(請採用不同配線以免包含開關的控制迴路產生干擾而造成錯誤動作的原因)
- 請勿在通電中進行配線。(以免造成連接器損壞或觸電風險)
- 設置本產品及配線時，請遠離強電流電線等雜訊源，而加載於電源線的突波請另外採取防護對策。否則可能造成顯示或輸出變動。
- 在流量計作動過程中，請勿碰觸端子或接座。(以免觸電、產生運作錯誤或損壞開關)
- 不穩定的電源有時超過額定電源，或導致本產品損壞，或導致本產品精度下降。
- 請停止控制裝置、機械裝置後，在切斷電源的狀態下進行佈線。如果使裝置過快運行有時裝置會進行異常動作，這樣非常危險。請先使控制裝置、機械裝置保持停止狀態進行通電試驗，並進行開關資料設定、操作前、操作中請將人體、工具、裝置所帶的靜電充分放電後進行操作。活動部請使用類似機器人用線材的具有耐屈曲性能的線材進行連接佈線。
- 負荷請不要短路。因為可能導致本產品破裂或燒毀。
- 本產品之電纜接頭含有防護套之接頭，未使用本產品之接頭，請做好接頭之防護，以防止雜質等不良因素導致其問題。
- 配線時，請確認配線的顏色及端子號碼。
(錯誤配線會導致開關損壞、故障與錯誤動作的發生。因此，在配線前請確認使用說明書上的配線顏色及端子編號後再進行配線，並請使用容量充足且波動小的DC電源)
- 本產品在通電後由於自身診斷需要耗時約四秒，這段時間內流量檢出開關不動作。通電後的四秒請設置為無視訊號的程式設定。

注意

- 動作過程中如果發生異常，請立即切斷電源，停止使用本產品，並與銷售店聯繫。
- 本產品的流量請保持在額定流量量程內。
- 變更輸出的設定值時，控制系統置可能會自動動作，因此請停止裝置運行後再變更輸出設定值。
- 請一年至少定期檢查一次本產品，確認本產品正常作動。
- 請不要拆解本產品，否則可能會造成故障。
- 外殼材質為樹脂，去除污漬時請不要使用溶劑、酒精、清洗劑等。
- 請注意斷線或配線電阻產生的逆向電流，與流量感測器相同的電源上連接含流量感測器的其他元件時，為確認控制盤的輸入裝置作動，如果使開關輸出線和電源線一極短路或切斷電源線一側，可能會在流量感測器的開關輸出迴路上產生逆向電流，造成流量感測器損壞。
- 本產品之RS-485規格，不含終端電阻。

關於安裝

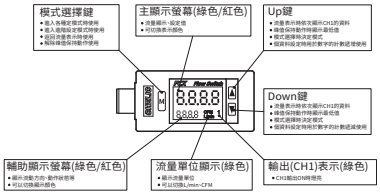
警告

- 請注意流體的方向。(流動方向請依照本體所指示的箭頭方向)
- 安裝前請用吹氣清除配管內殘留的汙垢。
- 請勿掉落、拍打。(若施加過大的撞擊，有可能導致內部損壞)
- 在安裝時，請勿拉扯電源線，以免拉力過大導致損壞。

注意

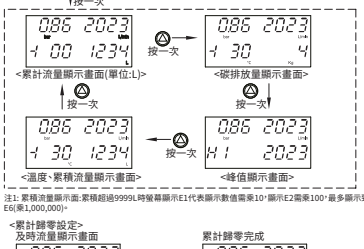
- 本產品LCD顯示器之流量，可能因為角度不同會有看不清的情況。
- 請使用適當的扭矩來鎖緊流量計。
- 使用本產品，請在沒有流量的情況下，先通電再通氣，以確保產品零點校正正確。
- 使用差壓式流量計，請確保提供穩定的壓力源。
- FPX系列大流量計，在工作壓力方面建議在5bar以上，若低於5bar則可量測的流量工作範圍會縮小。
- 本產品在飽壓狀態由於差壓特性，流道內含有壓力差導致氣體不能瞬間歸零，建議將氣體排出可以瞬間恢復至零點。
- 本產品之差壓式相關的流量計，無法量測真空流量，請改用FC熱質式。

① 螢幕顯示、操作按鍵和功能



操作模式/一般模式

子畫面顯示選擇



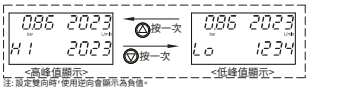
注1: 累積流量顯示畫: 累積超過9999L時螢幕顯示E1代表顯示數值需乘10，顯示E2需乘100，最多顯示到E6(第1,000,000)。

<累計歸零設定>

注1: 當電源切斷後，累計流量數值將歸零，顯示畫面將繼續保持為累計流量顯示畫面。

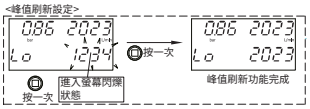
峰值保持功能

<峰值顯示畫面>



注: 設定雙向時，使用逆向會顯示為負值。

<峰值刷新設定>



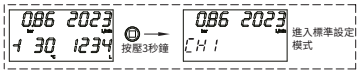
鎖鍵功能

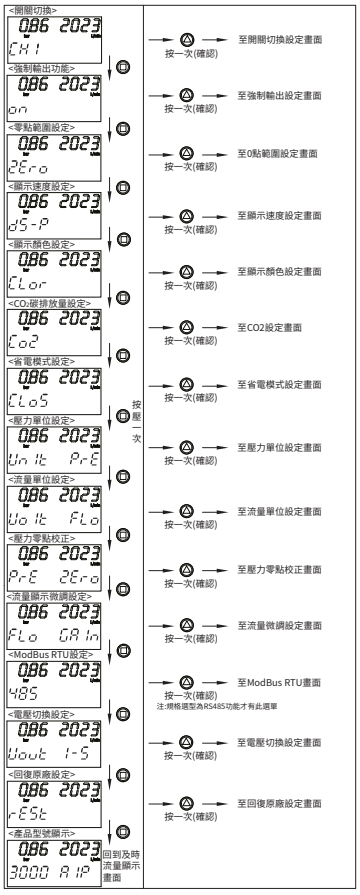
注: 電源切斷再復歸之後，解鎖或鎖鍵功能都會保持。
當鎖鍵功能啟動之後，所有的按鍵動作將不會有動作反應，除了解鎖功能。
當鎖鍵之後，如果按壓任何一個按鍵，螢幕將顯示"Loc"的字樣。

標準設定模式

如何進入標準設定模式

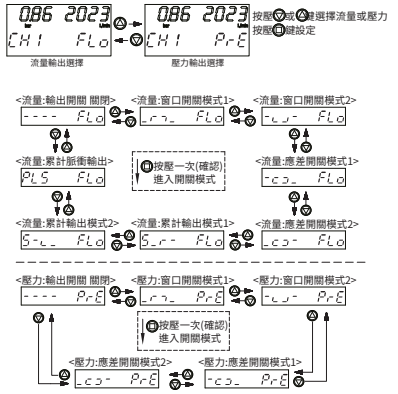
<及時流量顯示畫面>





注:標準設定模式下，未進行操作5秒，自動跳回及時流量顯示畫面。

▌設定開關切換功能



開關動作說明

名稱	LCD顯示	動作說明
窗口開關模式1 註1	_r7_	在指定範圍內開關輸出ON
窗口開關模式2 註1	-L-J-	在指定範圍外開關輸出ON
應差開關模式1 註1	-Cd_	設定一個應差範圍,達到指定流量以上時,開關輸出OFF
應差開關模式2 註1	_Cd-	設定一個應差範圍,達到指定流量以上時,開關輸出ON (顯示HHH值亦維持輸出)
累計輸出切換模式1 註2	S_r-	達到累計值以上時,開關輸出ON
累計輸出切換模式2 註2	S-L_	達到累計值以上時,開關輸出OFF
累計脈衝輸出 註3	PLS	累計每固定升數,輸出一脈衝訊號 (約為50ms)
切換輸入開關OFF	----	開關輸出OFF

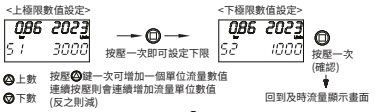
註:1.選擇壓力輸出時,請參考下表:

設定壓力單位	bar	kpa	psi
設定壓力數值	123	123	123
對應壓力數值	1.23	12.3	12.3

2.累計輸出切換模式:設定值需乘100L才是實際設定數值(例:設定10,實際設定值為10*100L)

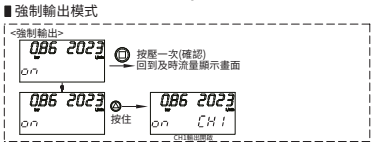
3.脈衝輸出率: 3000L=30L/Pulse,4000L=40L/Pulse,
6000L=60L/Pulse,8000L=80L/Pulse。

CH1開啟/關閉數值設定

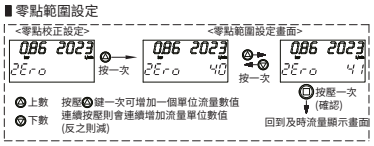


注: 開關模式皆預先設定為上限開啟數設定,設定完按Ⓜ鍵即可設定下限。

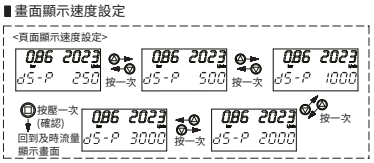
▌強制輸出模式



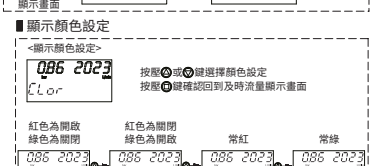
▌零點範圍設定



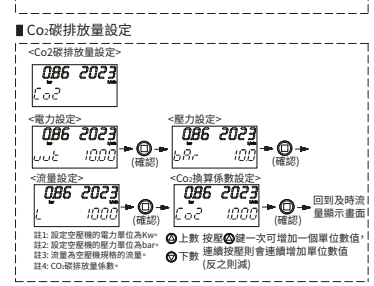
▌畫面顯示速度設定



▌顯示顏色設定



▌Co_2碳排放量設定



▌省電模式設定

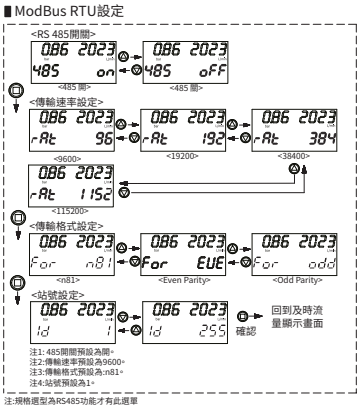
▌壓力單位設定

▌流量單位設定

▌壓力零點校正

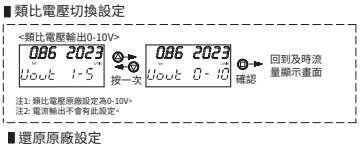
▌流量顯示微調

▌ModBus RTU設定



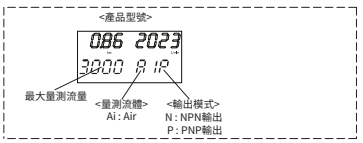
注:規格選型為RS485功能才有此選單

▌類比電壓輸出設定



▌還原原廠設定

▌產品型號顯示



▌ModBus RTU 指令說明

功能碼	功能名稱	讀/寫	功能說明
0x0000	MODBUS地址	讀/寫	1~255
0x0001	通訊速率	讀/寫	0-9600/1-19200/2-38400/3-115200
0x0002	同位位元	讀/寫	0=8N1/1=8N2/2=8E1
0x0003	累積壓力	讀	根據感測器尋小數點位數
0x0004	累積溫度	讀	讀取數值為23，則 溫度 = 23 °C
0x0005	累積流量	讀	根據感測器尋小數點位數
0x0006~0x0008	累積流量	讀	0x0006 : XX XXXX 9999 0x0007 : XX 9999 XXXX 0x0008 : 99 XXXX XXXX
0x0009	CO2排放量	讀	kg
0x000A	累計流量/CO2排放量歸零	寫	寫入執行
0x000B	流量小數點	讀	0=1/ 1=0.1/ 2=0.01/ 3=0.001
0x000C	壓力小數點	讀	0=1/ 1=0.1/ 2=0.01/ 3=0.001
0x000D	螢幕顯示模式	讀/寫	0=流量&溫度/1=累計流量/2=CO2
0x000E	CH1狀態	讀	0=OFF/1=ON
0x000F	CH1 讀別	讀/寫	0=Pressure/ 1=Flow
0x0010	CH1 模式	讀/寫	0=關閉/ 1=窗口1/ 2=窗口2/ 3=應差1/ 4=應差2/ 5=累計1/ 6=累計2/ 7=窗專(Pressure模式只可用)
0x0011	CH1 上限	讀/寫	自動對應顯得的壓力或流量
0x0012	CH1 下限	讀/寫	自動對應顯得的壓力或流量(限專)
0x0018	開關語言	讀	0=NPN/ 1=PNP
0x001D	電力設定	讀/寫	設定空壓機的電力單位為Kw。
0x001E	壓力設定	讀/寫	設定空壓機的壓力單位為bar
0x001F	流量設定	讀/寫	流量為空壓機規格的流量
0x0020	CO2排放量係數設定	讀/寫	CO2排放量係數
0x001A	流量0點範圍	寫	流量0點歸零範圍
0x001C	壓力0點校正	寫	寫入壓力歸零/讀取 讀取歸零數值
0x0022	流量顯示微調設定	讀/寫	±3%
0x0024	省電模式	讀/寫	0=關閉 /1=開啟
0x0025	設定流量單位	讀/寫	0=(CFM)/ 1=(L/min)
0x0026	設定壓力單位	讀/寫	0=bar/ 1=kPa/ 2=psi
0x0027	設定壓力範圍	讀	壓力感測最大範圍(廠家上壓力小數點為實際值)
0x0028	設定流量範圍	讀	流量感測最大範圍(廠家上流量小數點為實際值)
0x0029	螢幕顯示速度	讀/寫	0=250ms/ 1=500ms/ 2=1000ms/ 3=2000ms/ 4=3000ms
0x002A	顯示顏色設定	讀/寫	0=R-On/ 1=G-ON/ 2=R-長亮/ 3=G-長亮
0x002B	回復原廠	寫	寫入執行
0x002C	鎖鍵功能設定	讀/寫	0=關閉 /1=開啟
0x002D	基本型	讀	版本

注:CH1選擇累計模式時-0X0011:代表個位到千萬位 EX:9999 XXXX
0X0012:代表個位到千位 EX:XXXX 9999

▌讀寫碼說明

讀/寫碼	說明
03	讀取流量計參數
06	寫入流量計參數

▌異常代碼說明

代碼	說明
03	資料內容錯誤或超出範圍

Safety Precautions

The safety cautions are ranked as<DANGER> , <WARNING> and <CAUTION> in the section.

DANGER: When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries, or when there is a high degree of emergency to a warning.

WARNING: When a dangerous situation may occur if handling is mistaken leading to fatal or serious injuries.

CAUTION: When a dangerous situation may occur if handling is mistaken leading to minor injuries or physical damage.

Working fluid

DANGER

- Do not use this product with flammable fluids.

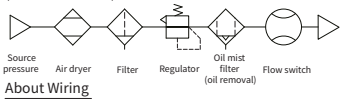
CAUTION

- Please use dry air without chlorine, sulfur, acid and other corrosive content fluid, also clean air without dust and oil mist.
- Please refer to the ambient pressure range in the operating pressure range specification or it will affect the life of the sensing component.
- Compressed air containing condensate water will cause defects in this product or other pneumatic components. Please install the cooler machine, air dryer, condensate collector or other countermeasures.
- Excessive toner generated by the air compressor will adhere to the inside of the product and cause malfunctions.
- Please check before purchasing, the pressure resistance of each series are different.
- Please observe the measured flow rate and operating pressure. (Using pressure above the specification will cause product damage)

WARNING

- This product cannot be used as a business meter.
- This product does not conform to measurement laws, and cannot be used for commercial purposes. Use this for factory applications.
- Do not use fluids other than the applicable fluid because accuracy cannot be guaranteed.
- Please confirm the adjustment of the pressure regulator before allowing fluid to flow. (Don't impose a limit that exceeds the rated pressure and cause damage)
- When using a value on the primary side of this product, use only an oil-prohibited specification valve. This sensor could malfunction or fail if exposed to splattering grease, oil, etc. Also, there is a risk of abrasion dust entering the sensor depending on the valve. Install a filter to prevent the dust from entering the sensor.
- Vaporize liquidities gas before use. Entry of liquidities gas into this product will result in damage.
- Foreign matter may be mixed in the fluid, please install the filter at the front end.

(Recommended circuit)



About Wiring

DANGER

- Use power voltage and output within the specified voltage. (If voltage exceeding the specified voltage is applied, the sensor could malfunction or be damaged, or electrical shock or fire could occur. Do not use a load exceeding the output rating. Failure to observe this could result in damage to the output or fire.)

WARNING

- Do not short-circuit the load. (This product is equipped with overload protection but it cannot protect all wrong wiring, so please pay more attention to wiring.)
- Please confirm the insulation while wiring. (Do not mix with other circuits to cause over-current, which may cause damaged.)
- Do not combine electric wire and power wire together while proceeding wiring. (Please use different wiring to avoid interference caused by the control circuit containing the switch affect wrong operation.)
- Do not process wiring while power-on. (Avoid the damage to the connector or risk of electric shock.)
- Please keep away from sources of noise such as high-current wires when install and wiring this product. Take additional protective measures against surges loaded on the power line or the display or output could fluctuate.
- Do not touch the connectors or sockets during the operation of the flowmeter. (To avoid electric shock, operation error or switch damage)
- If power is not stabilized, the peak value could be exceeded. This could damage the product or impair accuracy.
- Stop the control device and machine device, and turn the power off before wiring. Starting operation suddenly could result in unpredictable operation and hazards. Conduct an energized test with control devices and machine devices stopped, and set target switch data. Discharge electrostatic accumulated in personnel or tools before and darning work. Connect and wire bend-resistant material, such as robot wire material, for movable sections.
- Do not short-circuit the load. This product could rupture or burn.
- The cable connector of this product contains a connector with a protective sleeve. If the connector of this product is not used, please protect the connector to prevent unfavorable factors such as impurities from causing problems.
- When wiring, please confirm the wiring color and terminal number. (Wrong wiring will cause damage to the switch, malfunctions and errors. Therefore, before wiring, please confirm the wiring color and terminal number in the instruction manual before wiring, and use a DC power supply with sufficient capacity and small fluctuations.)
- The product after power-on, it takes 4 seconds detections, within 4 senconds the switch is no movement while flow rate working and take it as no signal program setting.

CAUTION

- If a problem occurs during operation, turn off power and stop using. Then contact your dealer immediately for the issue or question.
- Keep this products flow switch within the rated flow range.
- If the output setting value is change, control system devices could operate unintentionally. Stop devices before changing settings.
- Regularly inspect the product at least once a year or more, and confirm that this is operating correctly.
- Do not disassemble or modify this product. Doing so could result in faults.
- This case is made of resin. Do not use solvent, alcohol or any other detergent in cleaning to remove contamination, etc. Check backflow currents caused by broken wiring or wiring resistance. If other devices, including a flow sensor, and the switch output wire and power line's minus side are temporarily short circuited to check the operation of the control panel's input unit, or if the power line's minus side is broken, a backflow current could flow to and damage the flow sensor switch output circuit.
- The RS-485 specifications of this product do not include terminal resistors.

Installation Adjustment

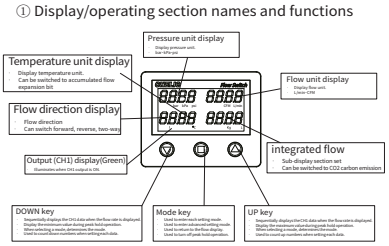
WARNING

- Note the direction of the fluid. (The flow direction should follow the direction of the arrow indicated by the body)
- Before installation, blow off the dirt remaining in the piping.
- Do not drop or beat. (If an excessive impact is applied, it may cause internal damage)
- During installation, please do not pull the power cord to avoid damage caused by excessive tension.

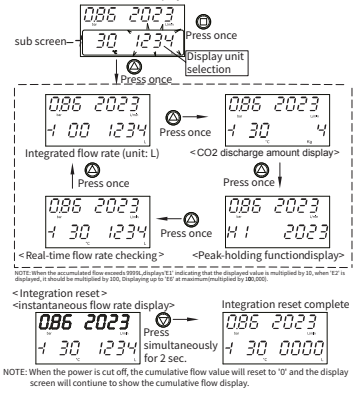
CAUTION

- The flow rate of the LCD display of this product may be unclear due to different angles
- Please use proper torque to lock the flowmeter
- When using this product, please turn on the power and then ventilate when there is no flow to ensure that the zero point calibration of the product is correct.
- When using a differential pressure flow meter, make sure to provide a stable pressure source.
- For the FPX series , the working pressure is recommended to be above 5bar. If it is lower than 5bar, the working range of the measurable flow will be reduced.
- Due to the differential pressure characteristics of this product in the saturated state, the gas cannot be returned to zero instantaneously due to the pressure difference in the flow channel. It is recommended that the gas be discharged to instantly return to zero.

① Display/operating section names and functions



▷ How to operate/ Normal mode

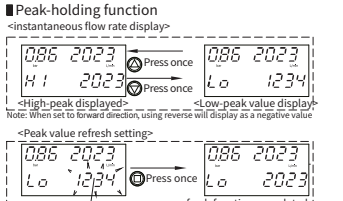


NOTE: When the accumulated flow exceeds 9999L,display E1, indicating that the displayed value is multiplied by 10, when "E2" is displayed, it should be multiplied by 100, Displaying up to "E6" at maximum(multiplied by 1,000,000).

< Integration reset >

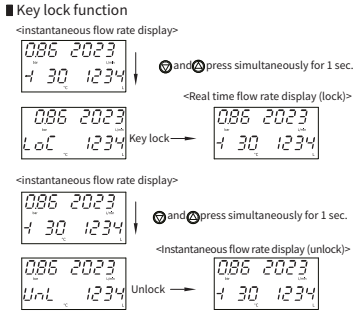
NOTE: When the power is cut off, the cumulative flow value will reset to '0' and the display screen will contiune to show the cumulative flow display.

▌Peak-holding function



Note: When set to forward direction, using reverse will display as a negative value

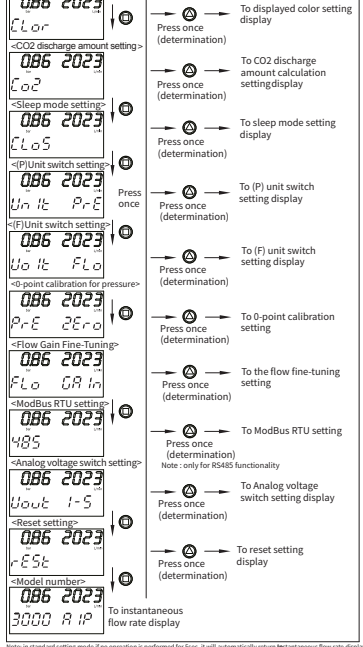
▌Key lock function



Note: Keys are unlocked when the controller is shipped. Lock keys if necessary.The key lock/unlock state is held even if power is turned OFF. While key lock, all the operations are not accepted excluding the key lock release operation. While key lock, If the key is operated, it becomes a "Loc" display.

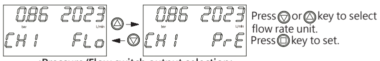
▷ Standard setting mode

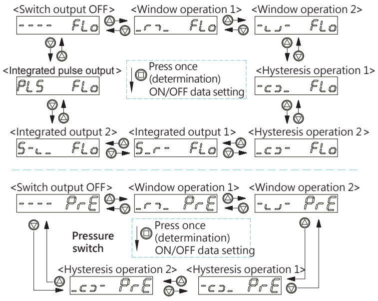
▌How to enter to Standard setting mode



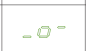
Note: in standard setting mode,if no opreation is performed for 5sec ,it will automatically return to instantaneous flow rate display

Data setting of switch output function





Switch action description

Mode	LCD display	Action description
Window operation 1		Switch output ON **within** the specified range
Window operation 2		Switch output ON **outside** the specified range
Hysteresis operation 1		Set a hysteresis range, when it reaches the specified flow rate or more, the switch output is OFF.
Hysteresis operation 2		Set a hysteresis range, when it reaches the specified flow rate or more, the switch output is ON. (Display shows HHH value and maintain output)
Integrated output 1	S_r	When reaches the specified flow rate or more, the switch output is ON.
Integrated output 2	S-L	When reaches the specified flow rate or more, the switch output is OFF.
Integrated pulse output	PLS	Set up an upper limit and trigger a pulse signal for 40ms when the count gets over it.
Switch output to OFF	- - - -	Switch to OFF

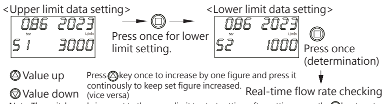
Note: 1. When selecting pressure output, please refer to the table below.

Set pressure unit	bar	kpa	psi
Set pressure value	123	123	123
Corresponding presure value	1.23	12.3	12.3

2.Integrated output: **the set value needs to be multiplied by 100 to get the actual setting value.(Ex: set to 10, the actual setting value is 10*100L)**

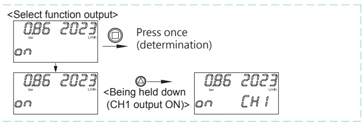
3.PLS set : 3000L=30L/Pulse,4000L=40L/Pulse, 6000L=60L/Pulse,8000L=80L/Pulse。

CH1 ON/OFF data setting

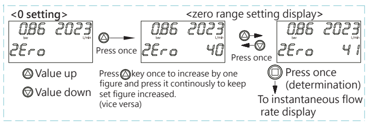


Note: The switch mode is preset to the upper limit to start setting, after setting, press the ☐ key to set the lower limit.

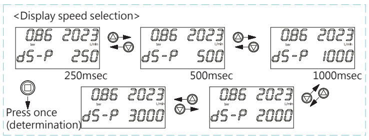
Select function output mode



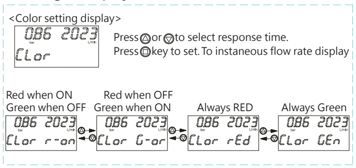
Zero range setting



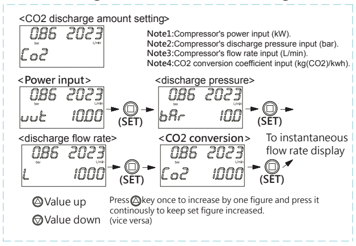
Setting of display speed



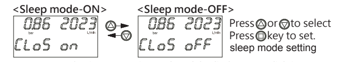
Setting of display color



CO2 discharge amount calculation setting

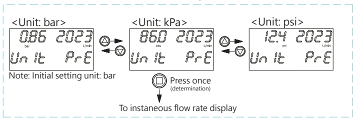


Sleep mode setting

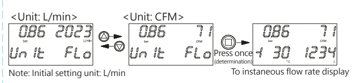


Note1: Press any key in power saving mode and the display resume lighting up.
Note2: The power saving mode will last for 1 minute each time.
Note3: The control functions remains intact in power saving mode.

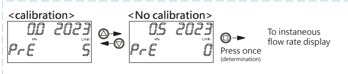
Pressure / unit switch setting



Flow / unit switch setting



Zero-point calibration for pressure

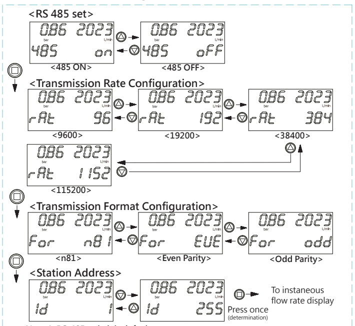


Flow Rate Display Fine-Tuning

△ Value up
▽ Value down
Press △ key once to increases the flow rate by 0.01%. Continuous pressing results in a continuous increment of the flow rate in unit values. (vice versa)

Note : Fine-tuning mode is preset to 0, with a configurable range of ±3%.

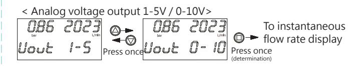
ModBus RTU setting



Note 1: RS-485 switch is default to open.
Note 2: Transmission rate defaults to 9600.
Note 3: Transmission format defaults to: n81.
Note 4: Station Address defaults to 1.

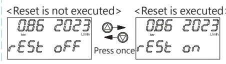
Note: This menu is available only for RS485 functionality as per the specification selection.

Analog voltage switch setting



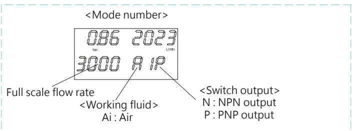
Note1: Initial setting 0-10V.
Note2: No initial setting for current output.

Reset to the initial setting



Press △ or ▽ to reset.
Press ☐ to set.To instaneous flow rate display

Mode number display



ModBus RTU command description

Register Number	Parameter	Access	Description
0x0000	MODBUS Address	R/W	1~255
0x0001	Communication rate	R/W	0-9600/1-19200/2-38400/3-115200
0x0002	Parity	R/W	0=n81/1=E81/2=o81
0x0003	Pressure	R	Handle decimal places according to specifications
0x0004	temperature	R	Reading value is 23 · temperature= 23 °C
0x0005	Flow	R	Handle decimal places according to specifications
0x0006~0x0008	Integrated flow rate	R	0x0006 : XX XXXX 9999 0x0007 : XX 9999 XXXX 0x0008 : 99 XXXX XXXX
0x0009	CO2	R	kg
0x000A	Integrated flow rate reset	W	execution
0x000B	decimal point/Flow	R	(displacement) 0=1/ 1=0.1/ 2=0.01/ 3=0.001
0x000C	decimal point/Press	R	
0x000D	display mode	R/W	0=(Flow&Temp)/ 1=Integrated flow rate/ 2=CO₂
0x000E	CH1 state	R	0=OFF/1=ON
0x000F	CH1 category	R/W	0=Pressure/ 1=Flow
0x0010	CH1 mode	R/W	0=OFF/ 1=window1/ 2=window2/ 3=hysteresis1/ 4=hysteresis2/ 5=integrated1/ 6=integrated2/ 7=PLS (Pressure mode only goes to 4)
0x0011	CH1 upper limit	R/W	Automatically corresponds to the selected pressure or flow rate
0x0012	CH1 lower limit	R/W	Automatically corresponds to the selected pressure or flow rate(PLS)
0x0018	NPN/PNP	R	0=NPN/ 1=PNP
0x001D	CO2 set / power	R/W	Set the power unit of the air compressor to Kw
0x001E	CO2 set / press	R/W	Set the pressure unit of the air compressor to bar
0x001F	CO2 set / flow	R/W	The flow is the flow rate of the air compressor specification.
0x0020	CO2 set / coefficient	R/W	CO2 carbon emission coefficient
0x001A	Flow 0 point range	W	Flow is 0 display range
0x001C	Pressure 0 point correction	W	W:Pressure returns to zero/R:Read the zero value
0x0022	Flow display fine-tuning set	R/W	±3%
0x0024	Sleep mode setting	R/W	0=OFF /1=ON
0x0025	Flow / unit	R/W	0=(CFM)/ 1=(L/min)
0x0026	Pressure / unit	R/W	0=bar/ 1=kPa/ 2=psi
0x0027	Rated pressure range	R	Maximum range of pressure sensing (the actual value needs to be multiplied by the decimal point of the pressure)
0x0028	Rated flow range	R	The maximum range of flow sensing (the actual value needs to be multiplied by the decimal point of the flow rate)
0x0029	Setting of display speed	R/W	0=250ms/ 1=500ms/ 2=1000ms/ 3=2000ms/ 4=3000ms
0x002A	Setting of display color	R/W	0=R-On/ 1=G-ON/ 2=R-Only red/ 3=G-Only green
0x002B	Reset to the initial setting	W	execution
0x002C	Key lock function	R/W	0=OFF /1=ON
0x002D	version number	R	version

Note: When CH1 selects accumulation mode
0X0011 : means tens of thousands to tens of millions EX:9999 XXXX
0X0012 : represents units digits to thousands EX:XXXX 9999

Function code

R/W	Description
03	Read flow meter parameters
06	Write flow meter parameters

Error code

code	Description
03	The data content is wrong or out of range