CHELIC



FPF 系列 壓力流量傳感器 操作說明書

FPF Series - Pressure & Flow Meter User Manual



這停止控制聯召、機械裝召後。在切斷電源的狀態下維行佈絡。如果使裝置撥快廠行有 转裝百會經行實際動作。该進非院危險。這所使地線裝置。機械裝置保持停止技態進行 遊能成績,並逐行期間直转起。是保守,操作市場作中消景。總工工具、經濟所等的亦能交分 放電後進行操作。活動部清使用類似機然人用線材的具有耐風曲性影的線材進行連接

佈線。 春花蘭子學短路·因為可能導致本產品級製或燒毀。 本產品之經顯接徵公有防毒免主機的'未使用本產品之接徵'清做好接到之防護'以防 此物質等不自起等及其用腳。 亞維斯·精經配配線的類色及兩子號碼-情報配點會等或開腦損壞、故與與結緣數件的 發生一因此、在配線前講確認使用即明書上的配線無色及端子與發後再進行配線、並續 使用毒量死足且激動小的心電源的

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 電後約四秒結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

- 如作地址中如果每年與常·博立即切斷電源·停止使用本產品·並與結婚。 本產品的是國際特在觀定增量確認。自動物作·因此消停止裝百班行後再變更輸出設定地 起度定面 過一年至少定期的第一次本產品·確認本產品正常作動。 調不要計算本產。一有時间愈動或故障。 分析有資品與一次本產品·確認本產品正常作動。 調之裏地域或此傳用產生的逆向進來與注意或測得相同的電差上地接合流量或測 輸送裏地域或此傳用產生的逆向進來與混畫或測得相同的電差上地接合流量或測 通知其他或此傳用產生的逆向進來與混畫或測得相同的電差上地接合流量或測 最近,因而不可能是一個一個一個一個一個一個 是或別國權工學一個一個最會在沒畫或測得的問題輸出與和電源經一級短 是或別國權工學一個一項集會在沒畫或測得的問題輸出與用產生差的電流,造成沒 量配到過程模型。

關於安裝

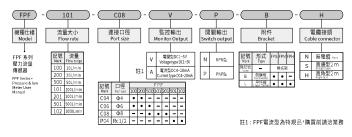
- 請注意流體的方向。(流動方向請依照本體所指示的前頭方向) 安裝前舖用吹氣消除配管內殘留的汗垢。 緒勿掉落·拍打、(若施加思大的撞擊·有可能导致內部損壞) 在安裝码·請勿抽出低涼線·以吳拉力過大吗改損壞。

- 本產品LCD顯示甚之流量"可能因為角度不同會有看不清的情況。 據使用度當的赶班來線緊急量計 使用未混品"結合沒有意的的方字,先述情雨透氣,以確保混品零點校正正確。 使用差据式流量計 補確保提供穩定的應力源。 FYK系列大流量計"任工作进力方面;推准在58点以上"若成於55a时同量測的流量工 FYK系列大流量計"任工作进力方面;推准在58点以上"若成於55a时同量測的流量工
- 1年86日 1987年 本產品在館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 氣薄排出可以瞬間恢復至零點。

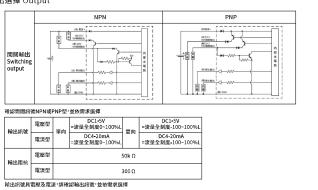
① 螢幕顯示、操作按鍵和功能

CHELIC Flow Switch 8888 8888 or lay pt 133 輸出CH1/CH2表示 流量單位顯示 ・朝外流量第12 ・可以於第1/8/201

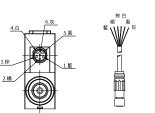
● 訂購稱呼代號 How to Order



動出選擇 Output



▶ FPF電纜線材規格表 Specification

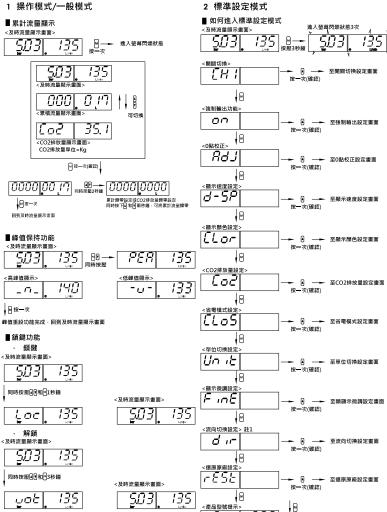


電源切斷再復贈之後,解錄或鎖鐵功能都會保持。 當鎖續功能啟動之後,所有的按鍵動作將不會有動作反應,除了解鎖功能 做錄聲之終,如果按應任任—一個按鍵,等聲終隨而可以於如此禁。

PIN	線色 Wre color	內容 Content
01	E (Blue)	電源一(GND)
02	橘 (Orange)	流量 電壓輸出:1-5V 負荷阻抗50kΩ以
03	棕 (Brown)	電源+(24V)
04	(Vinite)	CH1(開關輸出1 : max50mA)
05	黑	CH2(開闢輸出2 : max50mA)
06	灰	壓力 電壓輸出: 1-5V 負荷阻抗50kΩ以

※電攤接頭也有直角型,直角型的接頭為向下引出 (OUT) ※電攤接頭無法旋轉,若強硬旋轉,則會造成接頭連接部破損 ※FPF電流型為特規品,購買前請洽業務





Bio.

200

註1: 此功能為雙流向型流量計專用功能

回到及時流 量顯示畫面

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、表示如果維行操作,有可能導致死亡或重傷的危險內容並且危險發生時 的緊急性緊急模型高的情況。 響告、表示如果維行課證條件,有能等致死亡或重偏的危險內容。 注意、表示如果維行錯誤條件,有能等致輕傷或財物損失的危險內容。

關於使用流體

危險

注意

- 請使用不含氣、硫磷、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,否則會影響威測器的使用 壽命。
- 6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。

- 量版/市场音·至某处原签》/2 成小板来超去到京。 由於空壓展走的則多姿称的時在左着品內部,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)
- 差歷式流量傳感器威測與壓力有關,如果將流量計串接後,兩個流量計會因 為壓損差,而數值會有誤差,國於正常現象。

警告

- 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)

空氣乾燥器 空氣過速器 調壓艇 精密邊遠器 (去除油份)

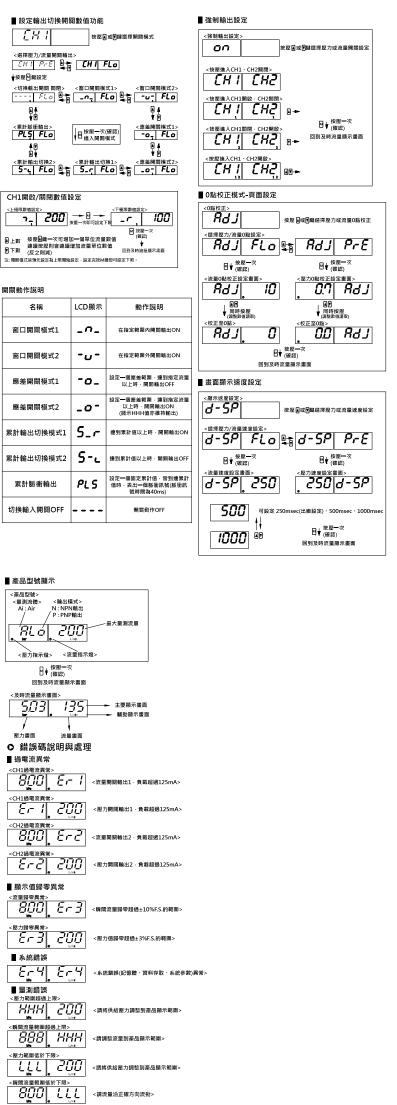
關於佈線

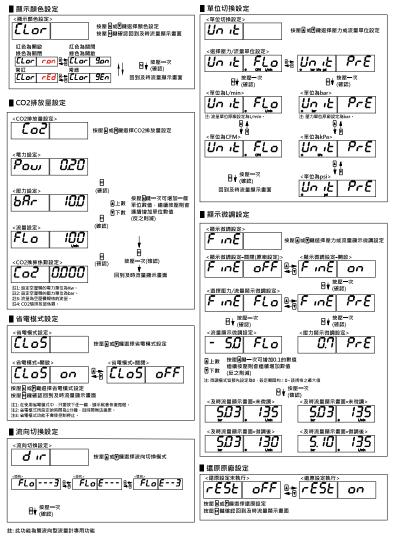
危險

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,最嚴重可能會讓

- 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。 (結採用不同配線以免包含開閉的控制與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)

- 設置本產品及配線的"精理開強電流電線等端訊源"而加載於電源線的突 波域另外採取防器對流"否則可靠近或銀元或編出經動 在流量計作動議程中"線勿蛇礦場子或接座"以免續電、產生運作指談或損 增關圖) 不穩定台電源有時起過距定電源,或學致本產品損壞,或學数本產品積度下降。





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. Water When a dangerous situation may occur if handling is mistaken leading to facility to the minutes. CAU TON 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

- CAUTION

 Please use try air without chlorine, salfur, asid and other corrosive contentfluid, also clean air without dust and oil miss!

 Please feet or the ambient pressourer nge in the operating pressure ranges pecification or it will affect the life of the sensing component.

 Compressed air containing condensate water will cause defects in thisproduct 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

 Please ocheck the measured flow rate and operating pressure.

 (Using pressure above the specification will cause product damage)

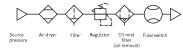
WARNING

- 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
- Do not use fluids other than the applicable fluid decause & Acutiasy Camino, see 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 of fail if exposed to splattering greaxe, oil, etc. Aso, 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 depending on the valve. Install a filter to prevent the dust from entering the sensor depending on the valve.
- the sensor.

 'Apportize 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

- WARNING

 On the short-cruit the load.
 (This product is equipped with everload protection but it cannot protect all wrong writing, so please pay more attention to wiring.)

 Please confirm the insulation while wiring.
 On ont mix with other circuits to cause over-current, which may cause damaged.)
 On not combine electric write and power wire together while proceeding wiring.
 (Please use cifferent wiring to avoid interference caused by the control circuit containing the switch affect wrong operation.)
 On not process writing witing lower or not incise such as high-current wires when install and writing this product. Take additional protective measures against surges loaded on the Donat Durch 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 peaks 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 auddenly could result in unpredictable operation and hazards. Conduct an energise test with control devices and machine devices stopped, and set target switch data. Discharge electrostatic accumulated in personnel or book before and darning work. Connect and wire bend-resistant material, such as robot wire material, for movable sections.

 10 not short-circuit the load. This product could inquire or burn.

 11 he cable connector of this product could rupture or burn.

 12 the cable connector of this product could replace protect the connector or prevent unfavorable factors such as impurities from causing problems.
- 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.

- LAUTION

 **In problem occurs during operation, turn off power and stop using. Then contact your dealer immediately for the issue or question.

 **Neep this products flow swirch 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.

 **The product of the product of the

Installation Adjustment

WARNING

- NINING
 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.
- 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
- When Using a unresentation process.

 For the FPX series , the working pressure is recommended to be above 5bail fit 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

