

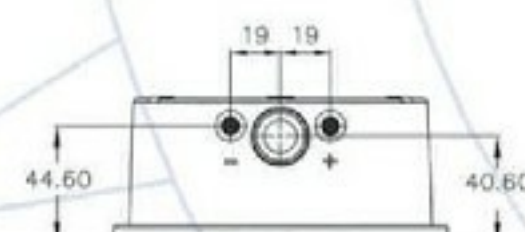
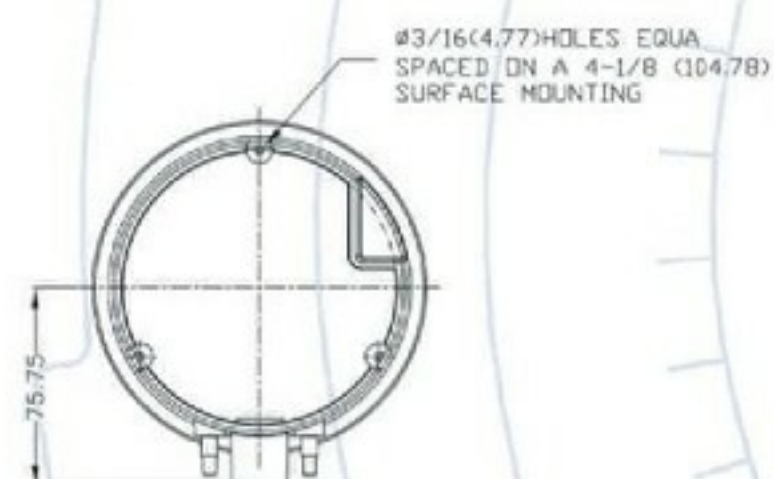
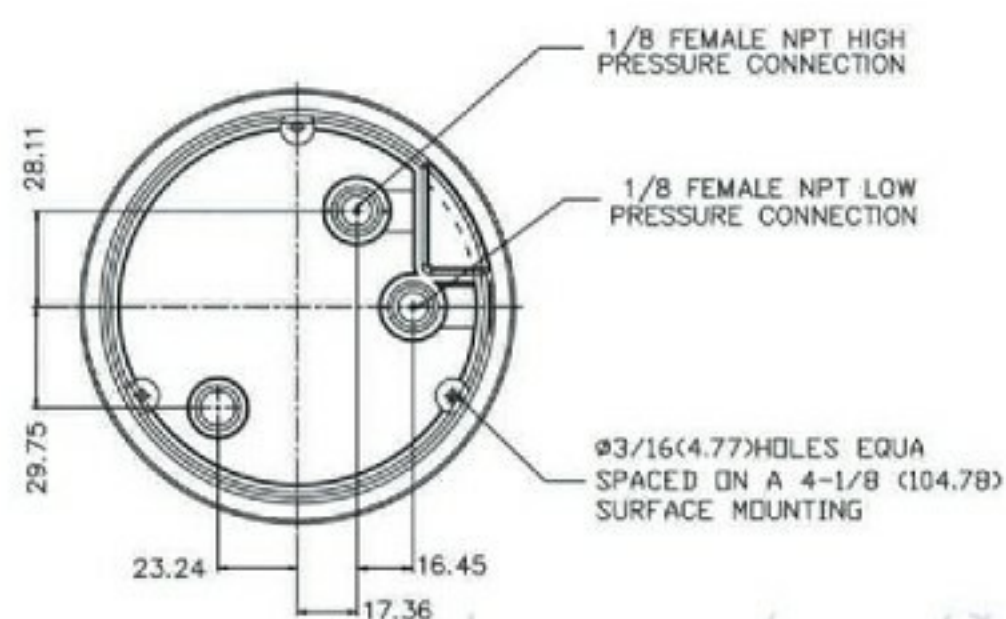
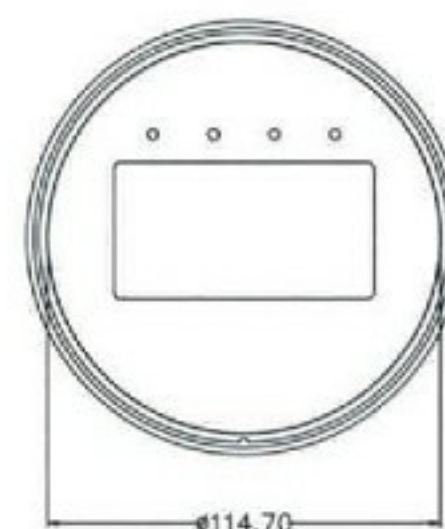
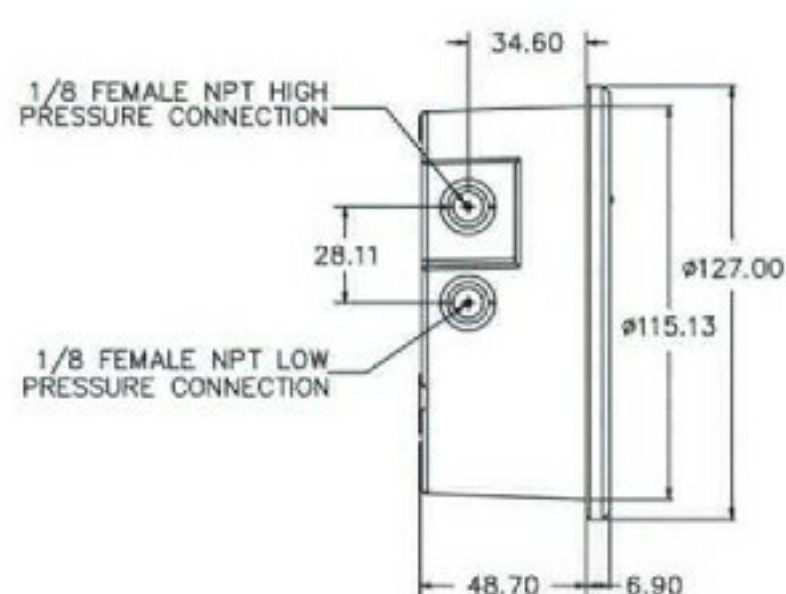


J-3500 數位式微差壓顯示器

Quality Technology



尺寸



應用領域：

- 冷凍空調系統
- 工業用通風設備
- 監控氣體濾器及通風機
- 負壓隔離病房
- 氣體流量監控
- 空氣壓力監控
- 機械及系統工程
- 環境工程

規格：

適用氣體：空氣、非腐蝕性、不可燃性。
 精度：±0.5%F.S(@25±3°C)/±1%F.S under 1" wc
 包括滯後性與重複性
 溫度範圍：32 to 140 °F (0 to 60 °C)
 溫度補償範圍：32 to 140 °F (0 to 60 °C)
 穩定性：每年 < ± 1%
 壓力範圍：參見圖表
 耐壓：壓力範圍 3 倍。
 熱效應：0.020% / °F (0.036/ °C) 從 77 °F (25 °C)
 電源要求：9V電池或外接電源9-24 VCD
 電池類型：9V鹼性電池
 消耗電流：5 mA最大值

單位：INWC、PSI、KPA、PA、MMWC、MBAR、
 INHG、MMHG、FS(0-100%)

反應時間：250 ms

防水等級：IP65

電氣連接：16至26 AWG可拆卸接線端子

電氣輸入：電纜接頭為2.9至6.4MM的電纜

接管孔徑：1/8" female NPT側面或背部連接

尺寸：5"(127 mm)O.D.front face

重量：420 g

特性：

- . 使用9V電池(或外接9-24V直流電源)
 - . 9種壓力顯示選擇
 - . 設定值異常字體閃爍
 - . 壓力百分比(BAR)顯示
 - . 銀幕環保省電功能
 - . 直接按鍵輸入設定
 - . 權限按鍵鎖定功能
1. J-3500型顯示器是用於監測空氣或兼容氣體之壓力或差壓, 可使用9V鹼性電池或外接9-24VDC電源, 並採用4位數LCD顯示, 字高20MM易於判讀; 8種壓力選擇及百分比方式顯示(FS: 0-100%); 另簡化輸入按鍵可直接設定。
 2. J-3500型使用MENU(菜單)容易編輯, 進入3種簡化功能設定, 並具多種附加功能, 如可記錄量程最大值與最小值(含最大及最小過載值)、LCD背光源省電模式、壓力顯示不穩定值之阻尼調整、安全級別密碼鎖鍵, 按裝及操作容易。
 3. J-3500型出廠時均完成校準, 其量程1"W, C(含)以下, 精度為1%, 量程2, 5"W, C(含)以上, 精度為0, 5%, 亦可提供雙向量測。

型號規格：

範例	J-3500					描述
型號	J-					
尺寸		3500				5英寸
電壓			D			DC
材質				P		工程塑膠
壓力範圍					001	0-0.1 in w.c.
					002	0-0.25 in w.c.
					003	0-0.5 in w.c.
					004	0-1 in w.c.
					005	0-2.5 in w.c.
					006	0-5 in w.c.
					007	0-10 in w.c.
					009	0-25 in w.c.
					010	0-50 in w.c.
					011	0-100 in w.c.
					013	0.25-0.25 in w.c.
					014	0.5-0.5 in w.c.
					015	1-0-1 in w.c.
					016	2.5-0-2.5 in w.c.
					017	5-0-5 in w.c.
					018	10-0-10 in w.c.
顯示					P	2M電纜線由主體後方出線
					N	2M電纜線由主體側方出線

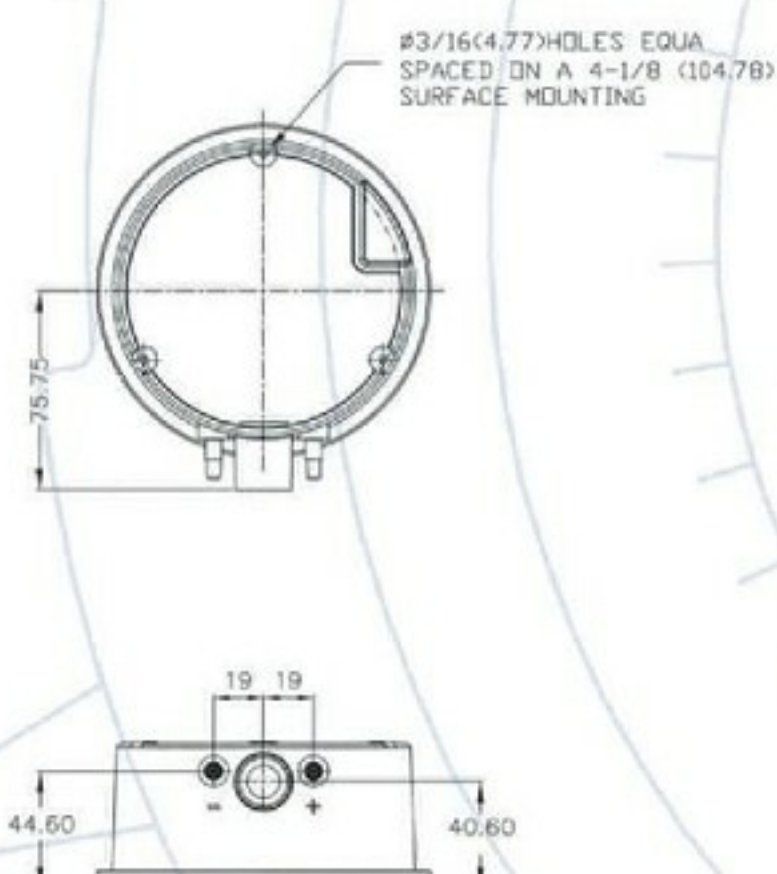
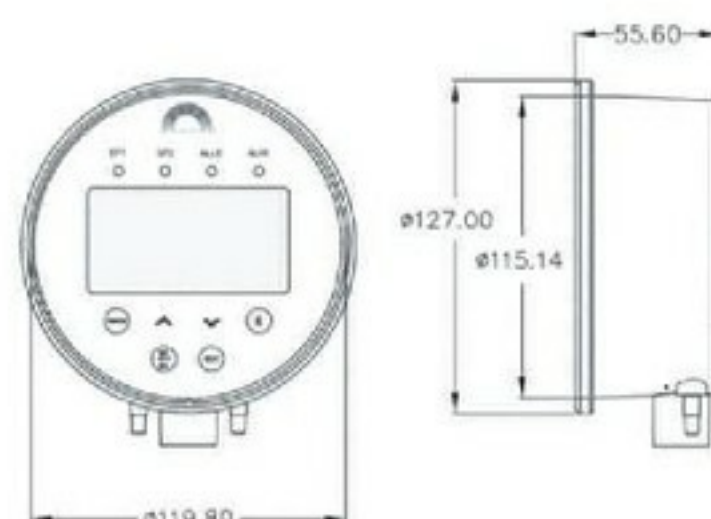
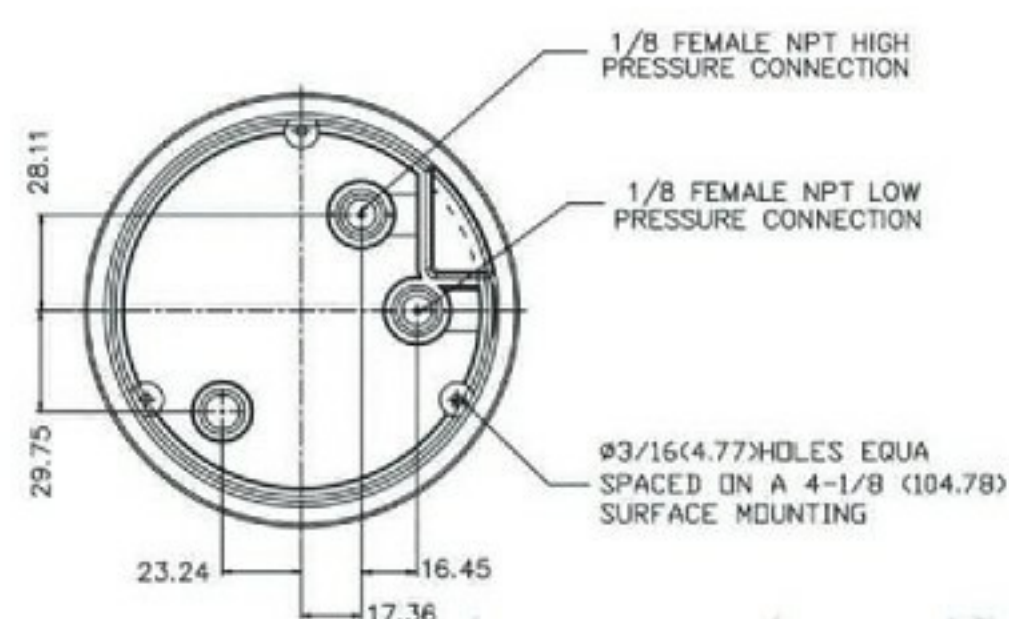
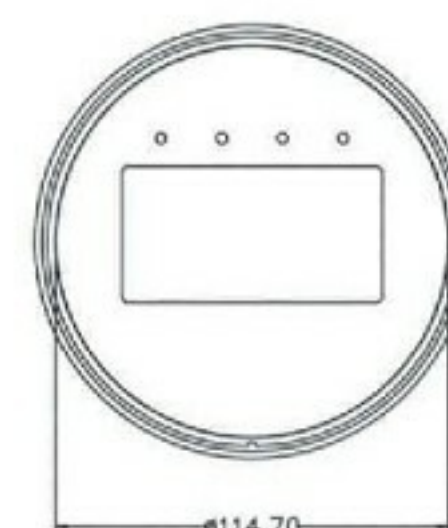
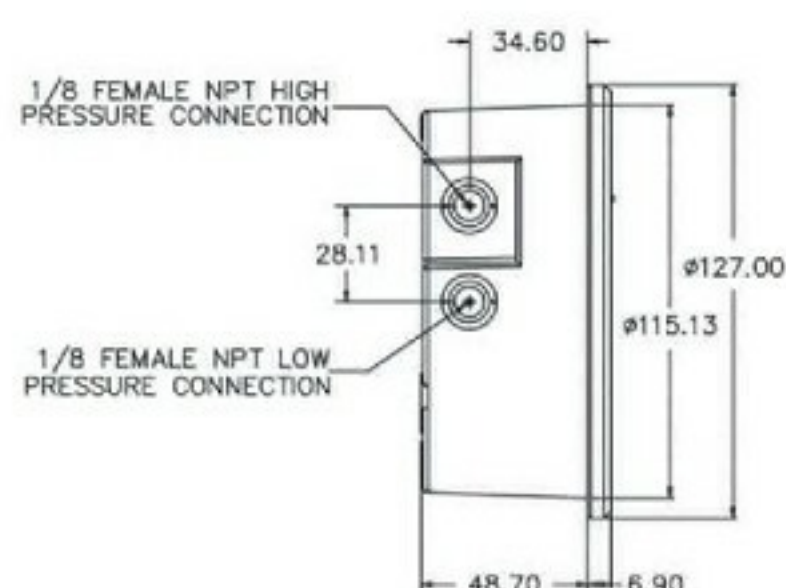


Quality Technology

J-3500 Digital Differential Pressure Gauge



Size



Application:

- Air conditional
- Fan industrial
- Filter and fan
- Negative pressure isolation room
- Flow of air controller
- Air pressure controller
- Engineering of machinery and system
- Environment engineering system



Service Innovation

品質 | 技術 | 服務 | 創新

Specification:

Service: Air and non-combustible, compatible gases
Accuracy: $\pm 0.5\% \text{F.S.} (@25 \pm 3^\circ\text{C}) / \pm 1\% \text{F.under } 1'' \text{ wc}$
including linearity, hysteresis and repeatability
Temperature Limits: 32 to 140°F (0 to 60°C)
Compensated Temperature Limits: 32 to 140°F (0 to 60°C)
Long Term Stability: $< \pm 1\%$ per year
Pressure Range: As table
Pressure Limits: X3 pressure range
Thermal Effect: 0.020%/°F (0.036/°C) to 77°F (25°C)
Power Requirements: Battery 9V OR 9-24VDC back-up
Type of Battery: 9V alkaline battery
Current Consumption: 5mA maximum
Contact Switches: NPN*2 or PNP*2 (100mA)
Scales: INWC, PSI, KPA, PA, MMWC, MBAR, INHG, MMHG, FS(0-100%)
Response Time: 250 ms
Water Proof: IP65
Electrical Connections: Removable terminal block for 16 to 26AWG
Electrical Entry: Cable gland for 2.9 to 6.4MM diameter cable
Process Connection: 1/8" female NPT side or back
Size: 5" (127mm) O.D. front face
Weight: 420g

Features:

- .9V power requirements (or 9-24VDC back-up)
 - .9 pressure scales options
 - .Flashing light set wrong
 - .Pressure display in % (BAR)
 - .Power saving
 - .Directly enter setting
 - .Lock setting option
1. J-3500 monitors the pressure of air and compatible gases. It requires 9V battery or 9-24VDC back-up. The 4 digit LCD can display 20MM high in 8 scales and % display(FS:100%); It has quick setting and when setting alarm (high, low) mistake 『FLASHING』 warning.
 2. J-3500 is easy to use MENU to set. Entry 3 set points and include other options. It records max and min pressure (include over pressure), LCD back light power saving, adjust pressure range of damping, level lock option and easy to install and set.
 3. J-3500 has already calibrate in factory, range under 1" W.C (include) is 1%, range over 2.5" W.C (include) is 0.5%. It has available bi-directional range.

Specification:

EX	J-3500					Description
Type	J-					
SIZE		3500				5 inch
VOLTAGE			D			DC
Material				P		Engineering Plastic
Pressure Range					001	0-0.1 in w.c.
					002	0-0.25 in w.c.
					003	0-0.5 in w.c.
					004	0-1 in w.c.
					005	0-2.5 in w.c.
					006	0-5 in w.c.
					007	0-10 in w.c.
					009	0-25 in w.c.
					010	0-50 in w.c.
					011	0-100 in w.c.
					013	0.25-0-0.25 in w.c.
					014	0.5-0-0.5 in w.c.
					015	1-0-1in w.c.
					016	2.5-0-2.5in w.c.
					017	5-0-5in w.c.
					018	10-0-10in w.c.
Display					P	2M Outgoing line from rear cover
					N	2M outgoing line from side cover



J-4500 數位式微差壓傳送器

J-4500 Digital Differential Pressure Transmitter

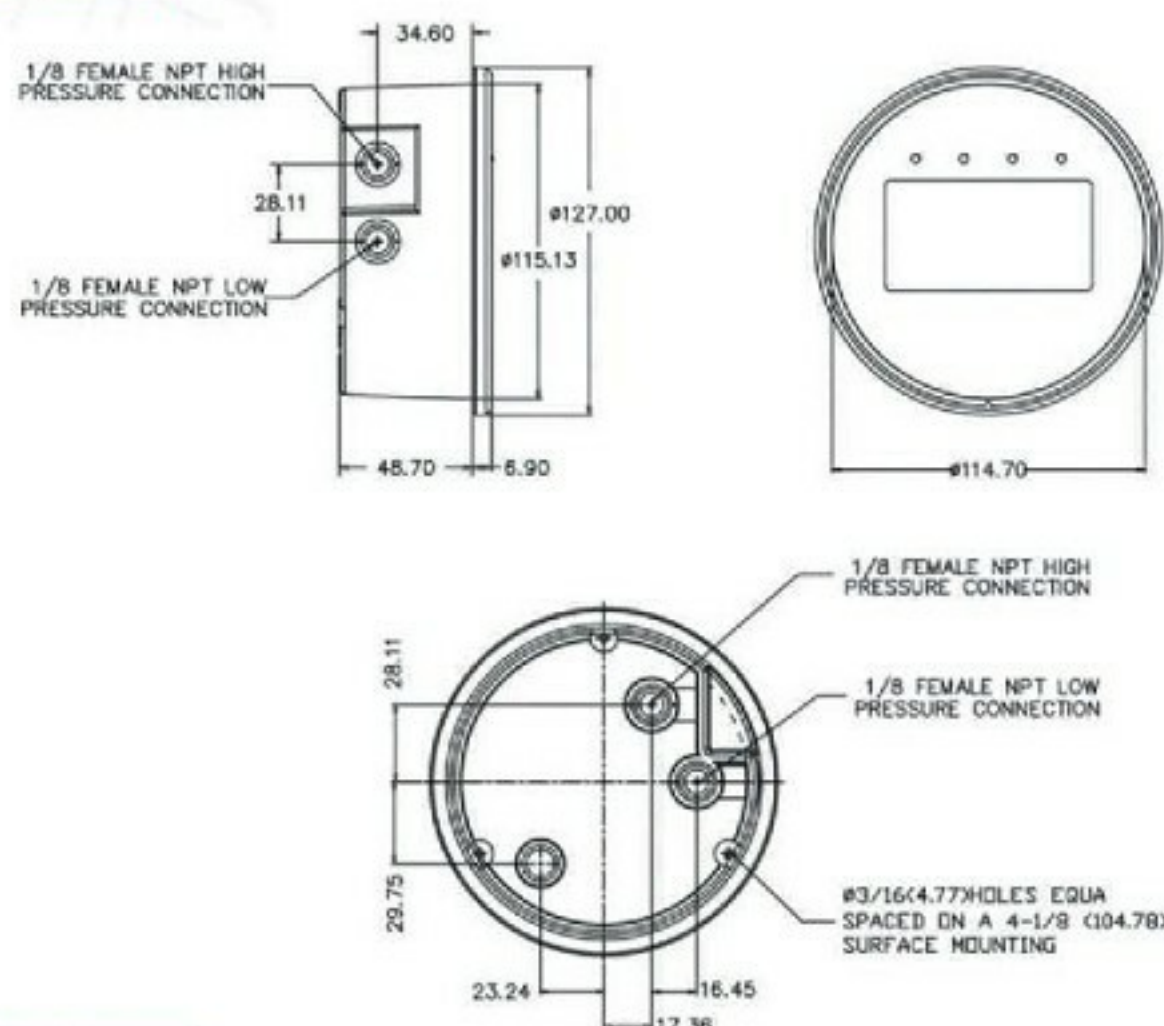


特性：

- 9種壓力顯示選擇
- 4-20mA電流輸出
- NPN/PNP輸出開關
- 壓力百分比(BAR)顯示
- 銀幕環保省電功能
- 直接按鍵輸入設定
- 權限按鍵鎖定功能

- J-4500型數位式微差壓傳送器擁有上述多種功能，並簡化為四個輸入按鍵，可直接輸入設定，以節約設定時間與步驟；另設定點設置可選擇HYS或WIN模式，及接點容量NPN*2或PNP*2多種應用選擇。
- J-4500型出廠時均完成校準，其量程1"W.C(含)以下，精度為1%，量程2.5"W.C(含)以上，精度為0.5%，亦可提供雙向量測。
- J-4500型使用菜單(MENU)容易編輯，進入3種主要功能設定選項，並具多種附加功能，如可記錄量程最大值與最小值(含最大及最小過載值)；LCD背光源省電模式；壓力顯示不穩定值之阻尼調整；安全級別密碼鎖鍵；零點及滿量程按鍵手動校準，按裝及操作容易。

尺寸：



規格：

適用氣體：空氣、非腐蝕性、不可燃性。

精度：±0.5%F.S(2.5"以上含)/±1%F.S(1"以下含)

包括滯後性與重複性

溫度範圍：32 to 140 °F (0 to 60 °C)

溫度補償範圍：32 to 140 °F (0 to 60 °C)

穩定性：每年 < ± 1%

壓力範圍：參見圖表

耐壓：壓力範圍 3 倍。

熱效應：0.020% / °F (0.036/ °C) 從 77 °F (25 °C)

電源要求：12-24 VAC/VDC.

輸出信號：4-20mA DC 最大 900 Ω

電力消耗：最大 3VA

接點容量：NPN *2 or PNP *2(100 mA)

壓力單位：INWC、PSI、KPA、PA、MMWC、MBAR、
INHG、MMHG、FS(0-100%)

接點容量：NPN *2 / PNP *2 輸出

過載電流：180mA (MAX)

反應時間：250 ms

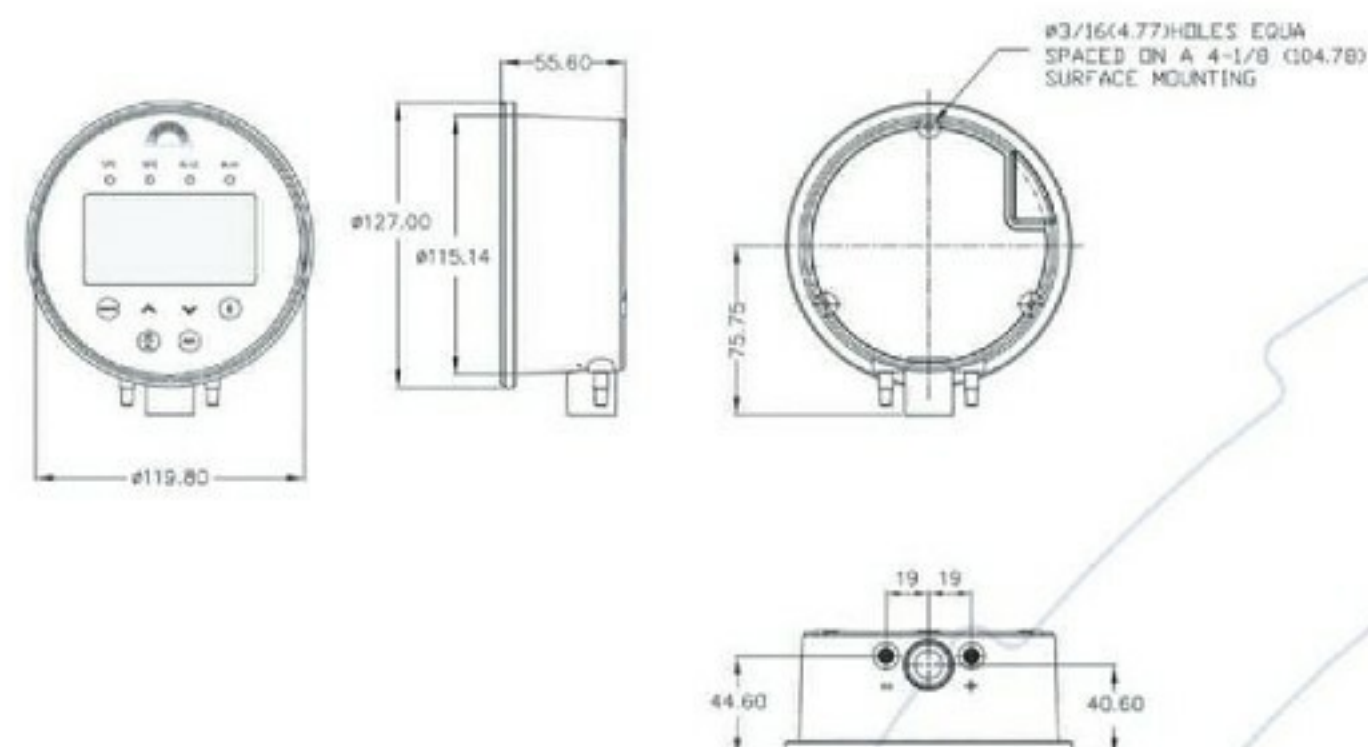
防水等級：IP65

線材規格：AWM2464、AWG26、5C Cable、線長2M

接管孔徑：1/8" female NPT側面或背部連接.

尺寸：5"(127 mm)O.D.front face

重量：400 g

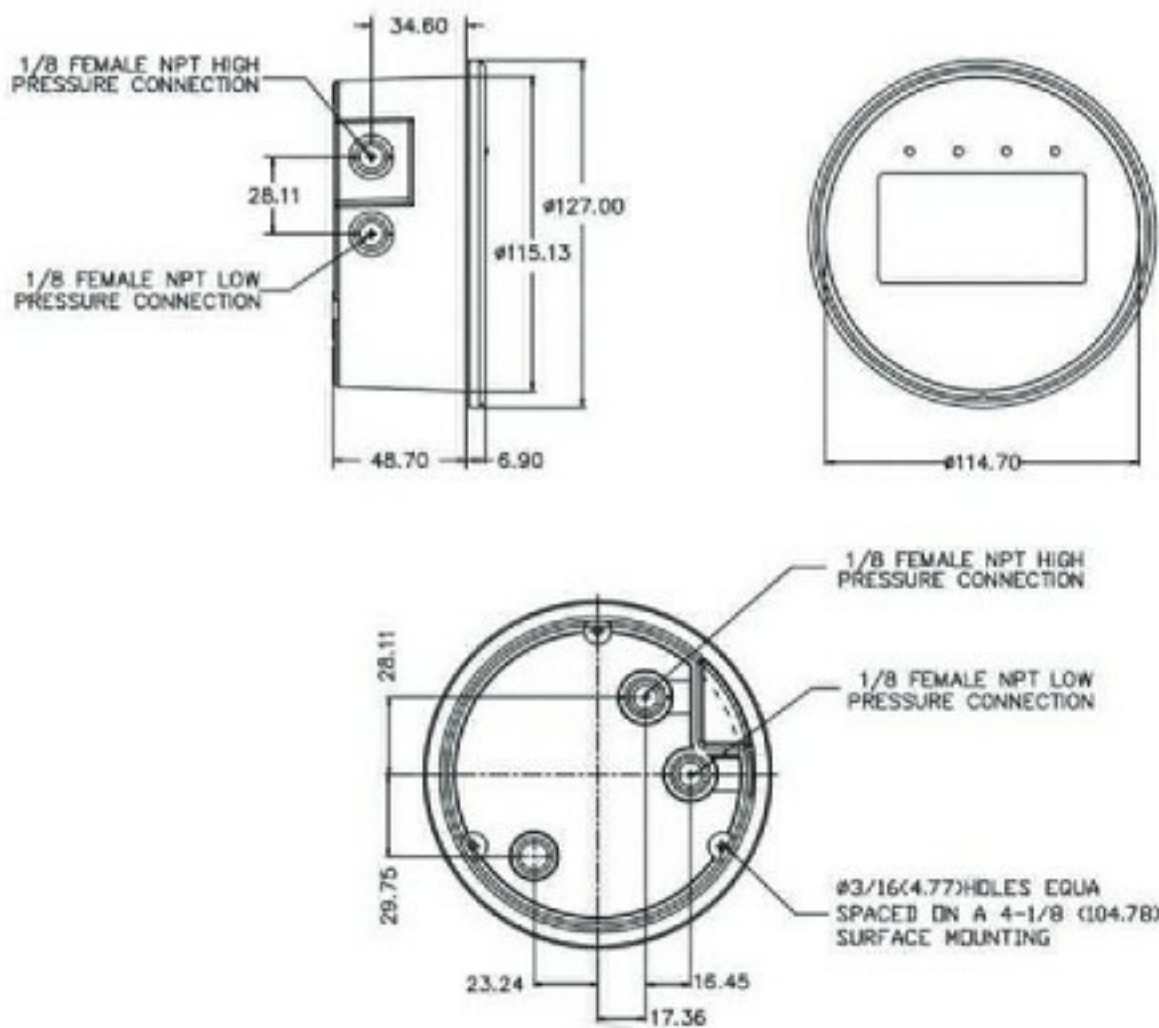


型號規格：

範例	J-4500				描述
型號	J-				
尺寸	4500				5英吋
電壓		D			DC
材質			P		工程塑膠
壓力範圍				001	0-0.1 in w.c.
				002	0-0.25 in w.c.
				003	0-0.5 in w.c.
				004	0-1 in w.c.
				005	0-2.5 in w.c.
				006	0-5 in w.c.
				007	0-10 in w.c.
				009	0-25 in w.c.
				010	0-50 in w.c.
				011	0-100 in w.c.
				013	0.25-0.25 in w.c.
				014	0.5-0.5 in w.c.
				015	1-0-1in w.c.
				016	2.5-0-2.5in w.c.
				017	5-0-5in w.c.
				018	10-0-10in w.c.
顯示				P	2M電纜線由主體後方出線
				N	2M電纜線由主體側方出線



Size

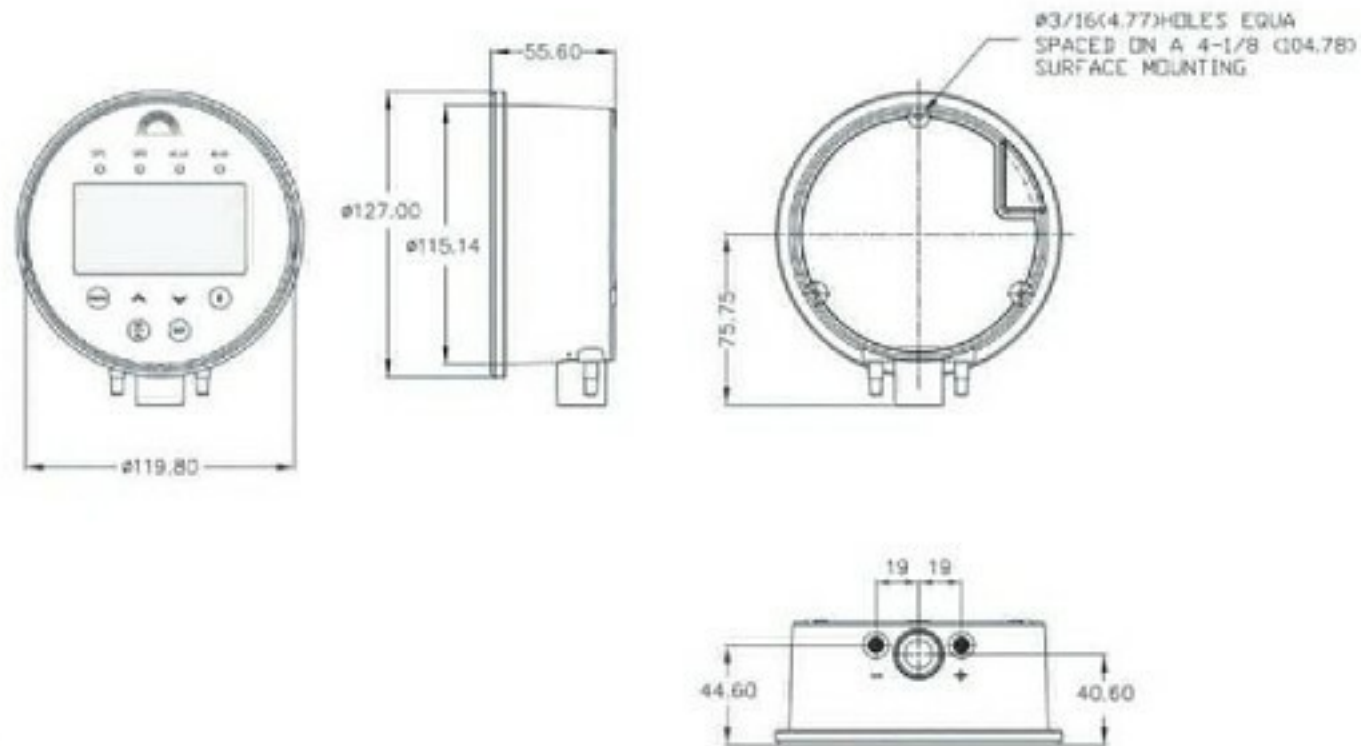


Specification:

Service: Air and non-combustible, compatible gases
Accuracy: $\pm 0.5\%$ F.S (over and include 2.5") $\pm 1\%$ F.S (under and include 1") including linearity, hysteresis and repeatability
Temperature Limits: 32 to 140°F (0 to 60°C)
Compensated Temperature Limits: 32 to 140°F (0 to 60°C)
Long Term Stability: $< \pm 1\%$ per year
Pressure Range: As table
Pressure Limits: X3 pressure range
Thermal Effect: 0.020%/°F (0.036/°C) to 77°F (25°C)
Power Requirement: 12-24VAC/VDC
Output: 4-20 mA DC max 900 Ω
Current Consumption: Maximum 3VA
Contact Switches: NPN*2 or PNP*2 (100mA)
Scales: INWC, PSI, KPA, PA, MMWC, MBAR, INHG, MMHG, FS (0-100%)
Contact Switches: NPN*2 or PNP*2 Output
NPN/PNP Over Load: 180mA (MAX)
Response Time: 250ms
Water Proof: IP65
Wire Specifications: AWM2464, AWG26, 5C Cable, WIRE 2M
Process Connection: 1/8" female NPT side or back
Size: 5" (127mm) O.D. front face
Weight: 400g

Features:

- .9 pressure scales options
 - .4-20mA output
 - .NPN/PNP output switches
 - .Pressure display in % (BAR)
 - .Power saving
 - .Directly enter setting
 - .Lock setting option
1. J-4500 digital differential pressure transmitter has many features above. The simplified four button operation reduces set up time. It has HYS or WIN mode to set up and contact switches have NPN*2 or PNP*2 option.
 2. J-4500 has already calibrate in factory, range under 1" W.C (include) is 1%, range over 2.5" W.C (include) is 0.5%. It has available bi-directional range.
 3. J-4500 is easy to use MENU to set. Entry 3 set points and include other options. It records max and min pressure (include over pressure); LCD back light power saving; adjust pressure range of damping; level lock option; calibration with its digital push button zero and span, easy to install and set.



Specification:

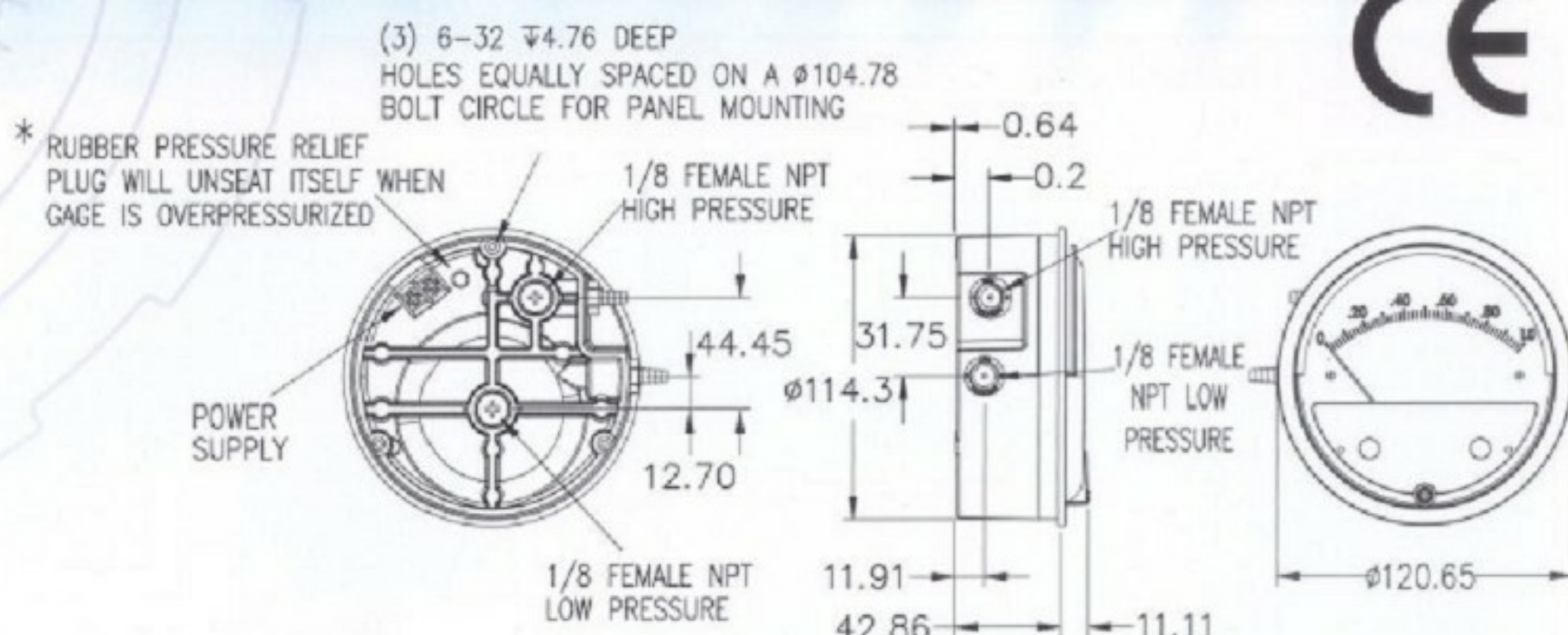
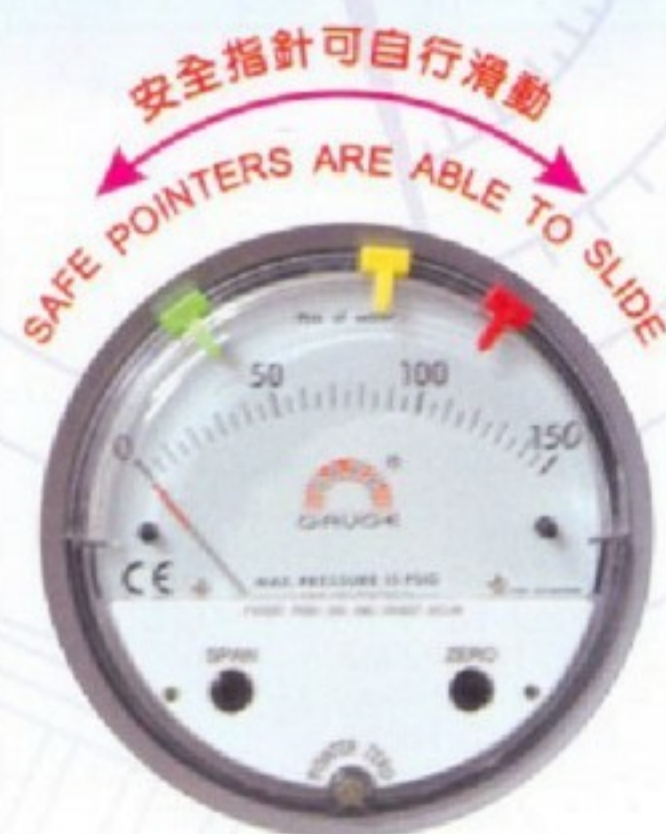
EX	J-4500	Description
Type	J-	
SIZE	4500	5 inch
VOLTAGE	D	DC
Material	P	Engineering Plastic
Pressure Range	001	0-0.1 in w.c.
	002	0-0.25 in w.c.
	003	0-0.5 in w.c.
	004	0-1 in w.c.
	005	0-2.5 in w.c.
	006	0-5 in w.c.
	007	0-10 in w.c.
	009	0-25 in w.c.
	010	0-50 in w.c.
	011	0-100 in w.c.
	013	0.25-0.25 in w.c.
	014	0.5-0.5 in w.c.
	015	1-0-1in w.c.
	016	2.5-0-2.5in w.c.
	017	5-0-5in w.c.
	018	10-0-10in w.c.
Display	P	2M Outgoing line from rear cover
	N	2M outgoing line from side cover



J-5500 指針式微差壓傳送器

J-5500 POINTER DIFFERENTIAL PRESSURE TRANSMITTER

Quality Technology



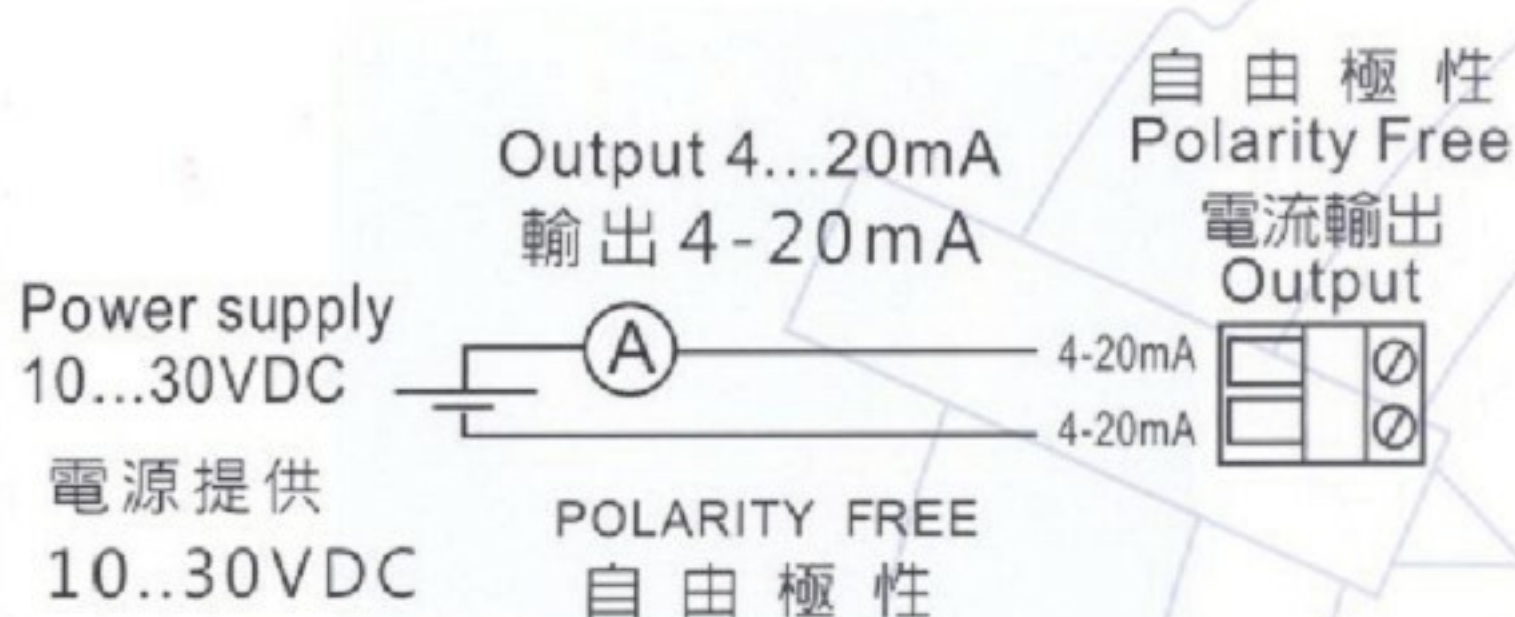
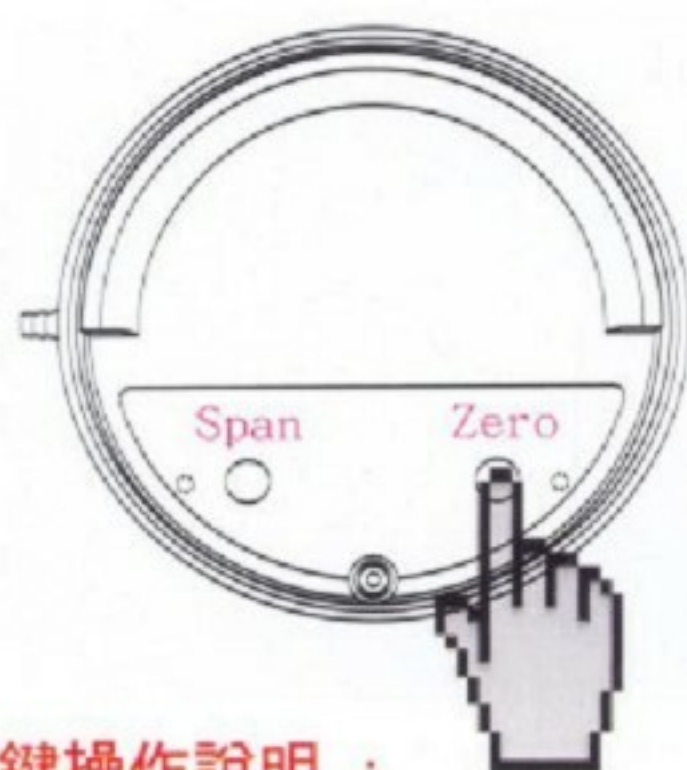
規格：

穩定性： $\pm 1\%$ F.S/年
壓力範圍：見圖表
精度： 1.0% (包括線性，滯後，重複性)。
溫度範圍：20 至 120 $^{\circ}\text{F}$ (-6.67 至 48.9 $^{\circ}\text{C}$)。
補償溫度範圍：32 至 120 $^{\circ}\text{F}$ (0 至 48.9 $^{\circ}\text{C}$)。
熱效應： $\pm 0.025\%$ FS/ $^{\circ}\text{F}$ (0.045 $\%$ FS/ $^{\circ}\text{C}$)。
電源要求：10-30 VDC (2 線)。
輸出信號：4 至 20 mA。
零點和滿量程調整：可調。(觸控按鍵調整)
迴路電阻：DC; 最大 0-1250 ohms。
電流消耗：DC; 最大 38 mA。

Specifications:

Stability: $\pm 1\%$ F.S/Year
Pressure Range:
Accuracy: 1.0% (Include linearity, hysteresis and repetition error)
Temperature Limits: 20~120 $^{\circ}\text{F}$ (-6.67~48.9 $^{\circ}\text{C}$)
Compensate Temperature: 32~120 $^{\circ}\text{F}$ (0-48.9 $^{\circ}\text{C}$)
Power Requirements: 10-30VDC (2 Wires)
Output Signal: 4-20mA
Zero & Span Calibration: Able (Touch Panel)
Current Output: DC; 0-1250ohms max
Voltage Output: DC; 38mA max

兩線電流接線圖：Wire connection:



觸控按鍵操作說明：

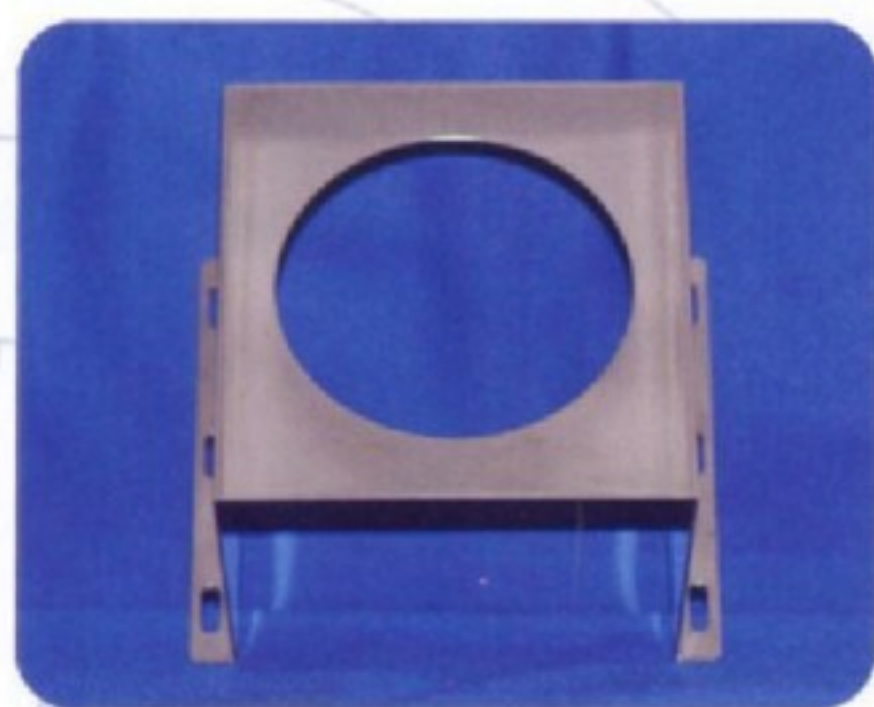
1. Zero 零點校正：當觸控零點鍵 3 秒 (LED 閃爍 1 秒) 即零點校正完成。
2. Span 滿量程校正：當觸控滿量程鍵 3 秒 (LED 閃爍 1 秒) 即滿量程校正完成。
3. 鎖鍵及解鍵功能：同時觸控零點及滿量程鍵 5 秒 (LED 閃爍 1 秒) 即鎖鍵，鎖鍵狀況下同時觸控零點及滿量程鍵 5 秒 (LED 閃爍 1 秒) 即解鍵。(產品出廠已鎖鍵)
4. 專利申請中仿冒必究。

Touch Panel Bottom Manual:

1. Zero adjustment: Touched zero bottom 3s(LED flash 1sec) zero adjustment done
2. Span adjustment: Touched span bottom 3s(LED flash 1sec) span adjustment done
3. UNL & LOC: Touched zero & span together 5s(LED flash 1sec) it's LOC. When LOC and touched zero & span together 5s(LED flash 1sec)it's UNL (Product already LOC)
4. World Patent Prove. Copy will suit.

品質 | 技術 | 服務 | 創新

壓力範圍 PRESSURE RANGE:

[illegible]

型號(TYPE): D4D6A



型號(TYPE):D4E6A

過程連接：高壓和低壓孔均為1/8" 錐管螺紋，兩組（側面和背面各一組）

Process conjunction: high pressure and low-pressure hole of 1/8" drill tube thread, 2 set(side and back each)

標準附件: 2個1/8" NPT堵頭, 2個1/8" 螺紋橡膠管接頭, 和3個帶螺釘的嵌入式安裝螺釘卡.

Standard fitting: 2 pcs 1/8" NPT head, 2 pcs 1/8" spiral plastic tube; & 3 pcs with bolt for bolt card installation.

外殼材質：壓模鑄鋁或含尼龍的ABS塑膠。

Casing Material: cast aluminum press or Nylon with ABS plastic

指針精確度：標準為 $\pm 2\%FS$

Panther Accuracy: Standard $\pm 2\%FS$

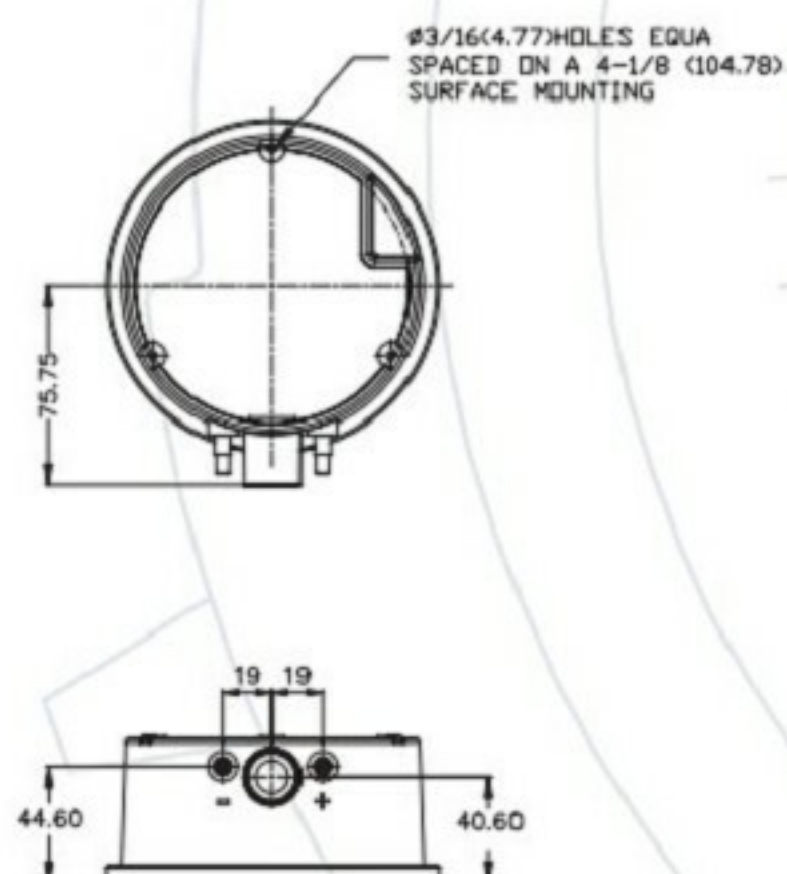
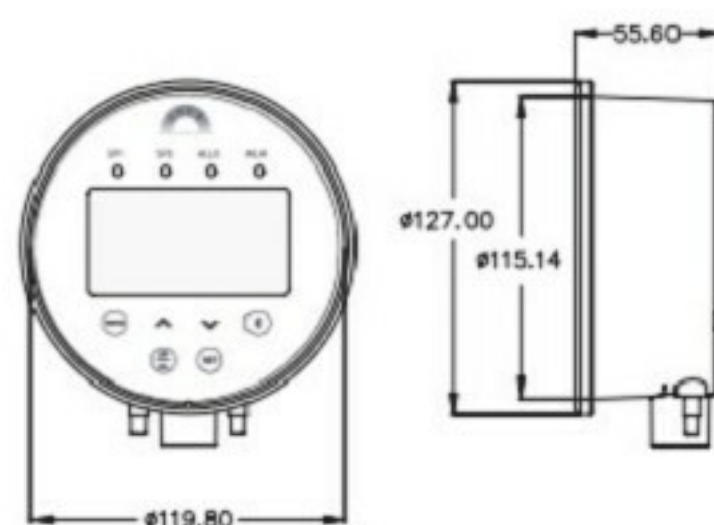
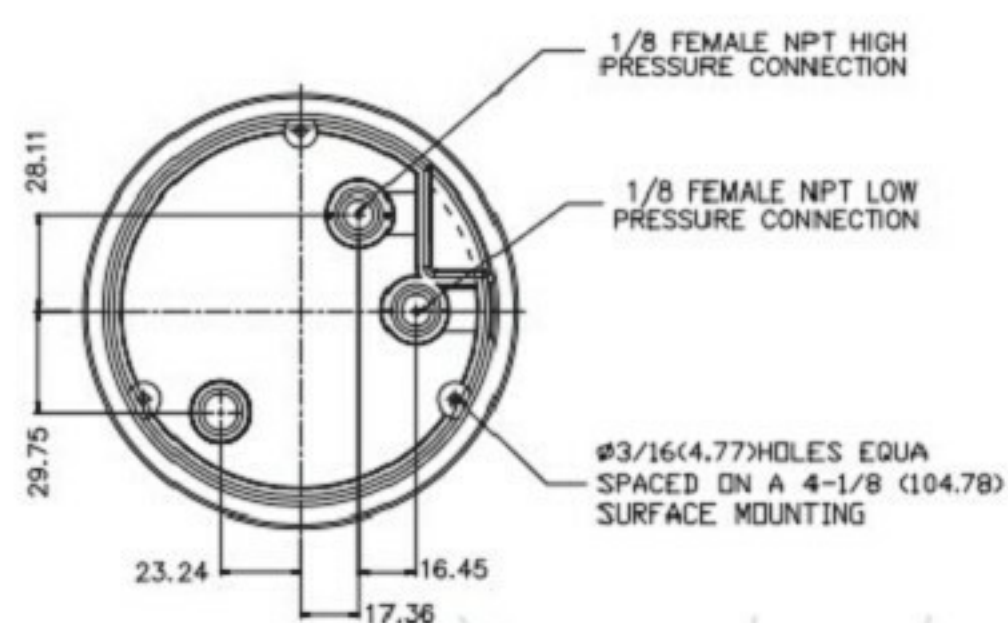
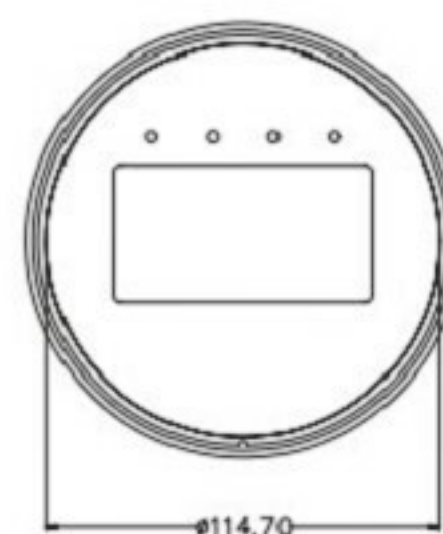
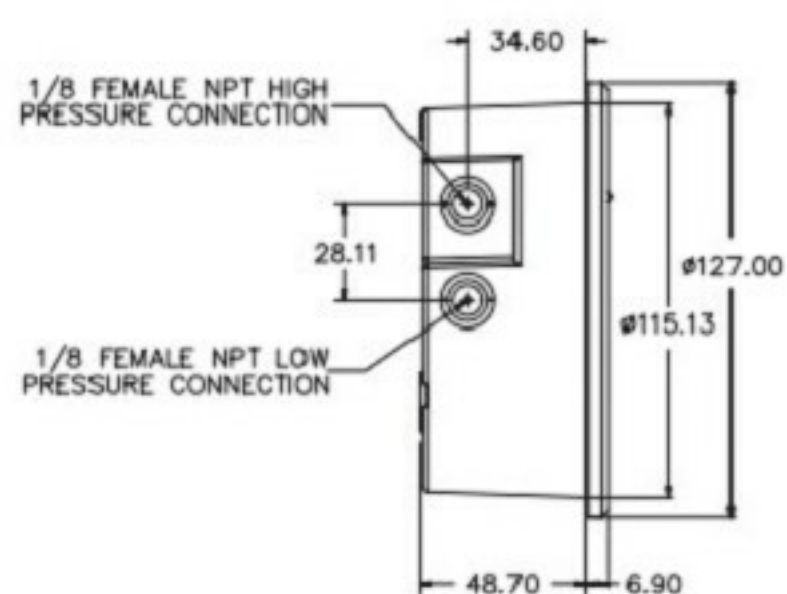


J-6500 型數位型差壓控制器

Quality Technology



尺寸



主要應用

冷凍空調系統
工業用通風設備
監控氣體濾器及通風機
負壓隔離病房
氣體流量監控
空氣壓力監控
機械及系統工程
環境工程

規格

適用氣體:空氣，非腐蝕性，不可燃性。
精度:< 5" w.c.(除± 2.5" w.c.)± 1%;
其它所有範圍±0.5%,在77°F(25°C)含
遲滯作用和重覆性(熱機後1小時)
溫度範圍: 32 to 140°F (0 to 60°C).
溫度補償範圍: 32 to 140°F (0 to 60°C).
穩定性: 每年<±1%
壓力範圍:單向量程0-50in W.C. 區分十種量測
範圍;雙向量程1-0-1in w.c. 至
10-0-10in w.c. 區分六種量測範圍
耐壓: 壓力範圍5倍。
熱效應: 0.020%/°F (0.036/°C) 從77°F (25°C)
電源要求: 12-24 VAC/VDC.
輸出信號: 4-20mA DC最大900 Ω
電力消耗: 最大3VA
壓力單位:INWC、FTWC、MMWC、CMWC、PSI、INHG
、MMHG、MBAR、PA、KPA、HPA、OZIN
反應時間: 250 ms
顯示:背光4位數LCD,字高20mm及壓力顯示BAR. 設
定點和警報狀態的LED指示燈。
防水等級: IP65
線材規格: AWM2464、AWG28、10C Cable、線長2M
接管孔徑: 1/8" female NPT側面或背部連接。
尺寸: 5" (127 mm) 前緣
重量: 442 g.
開關類型: 2 SPDT Relays.
電氣指標: 1 A @ 30 VAC/VDC.
設定點調整: 可通過表面按鍵調整
認證:CE
過程連接: 高壓和低壓孔均為1/8" 錐管螺紋，
兩組(側面和背面各一組)
標準附件: 2個1/8" NPT堵頭，2個1/8" 螺紋橡
膠管接頭，和3個帶螺釘的嵌入式安
裝螺釘卡。
外殼材質: 塑膠

特性

J-6500型差壓控制器擁有三合一功能,具有數位顯
示、開關控制、電流訊號輸出等功能,可節約成本
及安裝時間,並具備以下特性:

- 適量測壓力、風速、風量.並可提供雙向量測及用
於開根號輸出流量計算
- 內建4-20mA輸出及2組SPDT Relays設定
- 具環保省電功能,可選擇顯示或背光關閉省電模式
- 零點及滿量程調整,可由MENU調整校正
- 具權限按鍵鎖定功能
- 壓力單位選擇共計12種
- 使用MENU鍵容易編程,進入三種簡化模式,可選擇
如下;輸出設定、安全級別、壓力或風速及風量
運行方式、壓力單位、風量傳感器K系數,在風量
計算時可選擇矩形或圓形管偵測,並可設定點控
制、具高低點警報操作、自動或手動警報復歸
、警報延遲、目前壓力值顯示,不穩定壓力濾波
調整,並可提供遠端監控。

型號規格：

範例	J-6500-DP002-P					描述
型號	J-					
尺寸	6500					5英吋
電壓		D				DC
		A				AC
材質			P			工程塑膠
			A			鋁合金
壓力 範圍				001		0-0.1 in w.c.
				002		0-0.25 in w.c.
				003		0-0.5 in w.c.
				004		0-1 in w.c.
				005		0-2.5 in w.c.
				006		0-5 in w.c.
				007		0-10 in w.c.
				009		0-25 in w.c.
				010		0-50 in w.c.
				011		0-100 in w.c.
				013		0.25-0.25 in w.c.
				014		0.5-0.5 in w.c.
				015		1-0-1in w.c.
				016		2.5-0-2.5in w.c.
				017		5-0-5in w.c.
				018		10-0-10in w.c.
顯示					P	2M電纜線由 主體後方出線
					N	2M電纜線由 主體側方出線

(註)
*1: 雙向壓力型沒有風速，風量功能
*2: 25in w.c. 以上沒有風速，風量功能

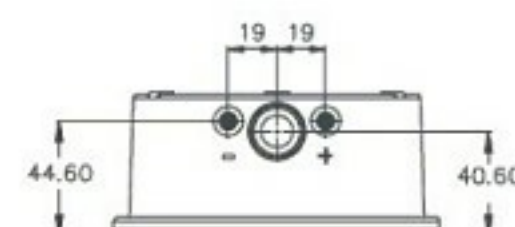
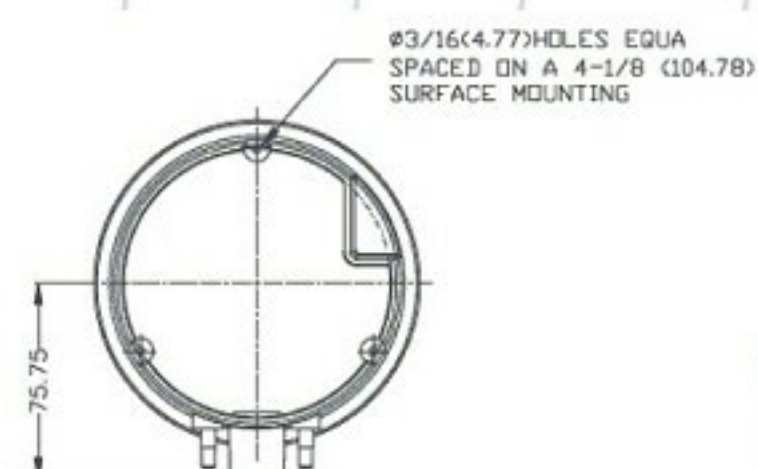
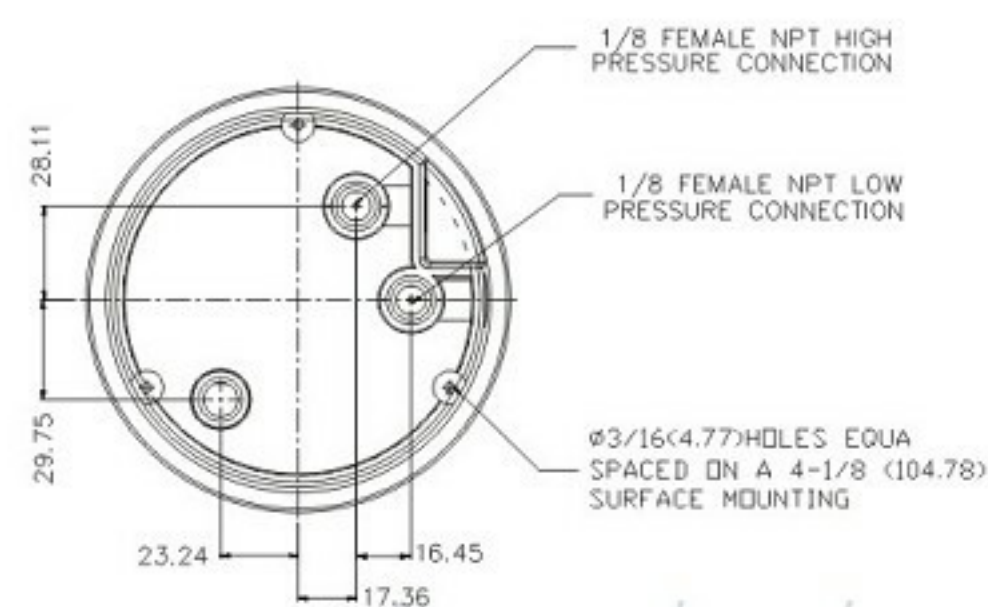
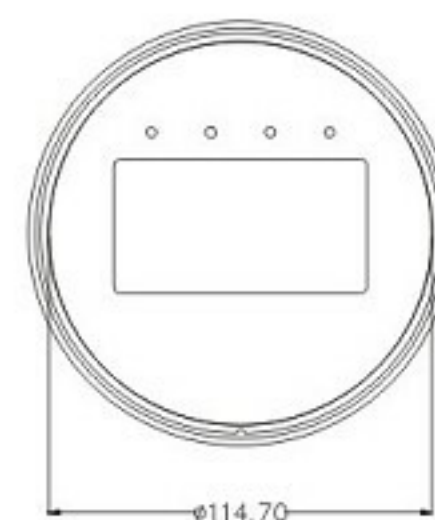
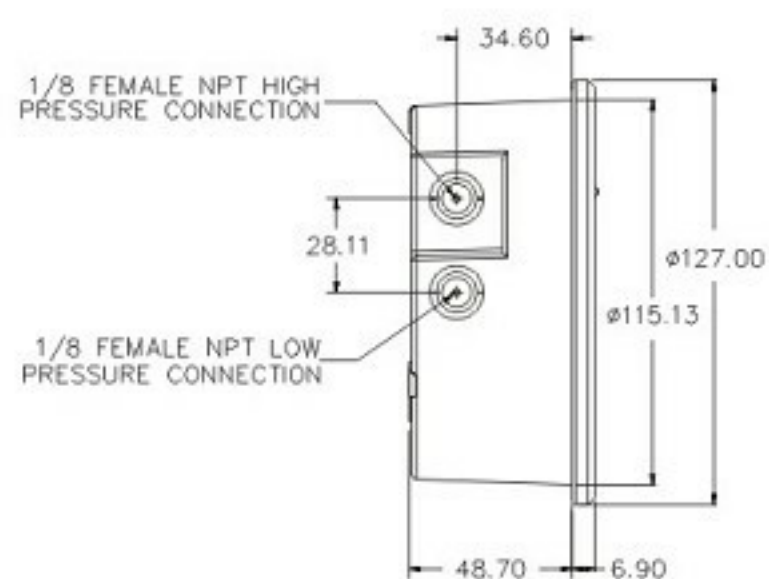


J-6500 Pressure Transmitter

Quality Technology



Size



Application

Air conditional
Fan industrial
Filter and fan
Negative pressure isolation room
Flow of air controller
Air pressure controller
Engineering of machinery and system
Environment engineering system

Specification

Service: Air and non-combustible , compatible gases.
Accuracy: < 5" w.c. (except ± 2.5 " w.c.): $\pm 1\%$; All other ranges: $\pm 0.5\%$ at 77°F (25°C) including hysteresis and repeatability (after 1 hour warm-up).
Temperature Limits: 32 to 140 °F (0 to 60 °C).
Compensate Temperature: 32 to 140 °F (0 to 60 °C).
Stability: < $\pm 1\%$ per year
Pressure Limits Range: measure ≤ 2.5 " wc : 25psi : ± 2.5 " , 5" wc: 5 psi : 10" wc : 5 psi : 25" wc: 5 psi : 50" wc: 5 psi : 100" wc: 9 psi
Max Pressure: 5X RATED FS
Thermal Effects: 0.020%/°F (0.036/°C) 從 77°F (25°C)
Power Requirements: 12-24 VAC / VDC.
Output Signal: 4-20mA DC into 900 Ω max.
Power Consumption: 3VA max
Pressure Unit: INWC、FTWC、MMWC、CMWC、PSI、INHG、MMHG、MBAR、PA、KPA、HPA、OZIN
Zero & Span Adjustments: Accessible via menus.
Response Time: 250 ms
Display: Backlit 4 digital LCD 20mm height and pressure display BAR, LED Indicators for set point and alarm status.
Water Proof: IP65
Wire Specifications: AWM2464, AWG28, 10C Cable, Wire2M
Process Connections: 1/8 " female NPT. Side or back connections.
Size: 5" (127mm) O.D. front face
Weight: 442 g.
Switch Type: 2 SPDT Relays.
Electrical Rating: 1 A @ 30 VAC / VDC.
Set Point Adjustment: by surface buttons to adjustable via keypad on face.
Approvals: CE
Process conjunction: high pressure and low-pressure hole of 1/8" drill tube thread, 2 set (side and back each)
Standard fitting: 2 pcs 1/8" NPT head, 2 pcs 1/8" spiral plastic tube; & 3 pcs with bolt for bolt card installation.
Casing Material: Glass filled plastic

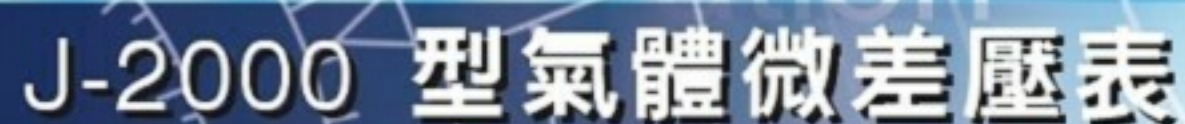
Features

The Series J-6500 Digital Differential Pressure Controller is a 3 in 1 instrument possessing a digital display gauge, control relay switches, and a transmitter with current output all packed. Combining these 3 features allows the reduction of several instruments with one product, saving inventory, installation time and money. The Digital Differential pressure controller is the ideal instrument for pressure, velocity and flow applications, achieving a 1% full scale accuracy on ranges down to the extremely low 0.25" w.c. to 2.5" w.c. full scale. Ranges of 5" w.c. and greater maintain 0.5% F.S. accuracy. Bi-directional ranges are also available. The Series J-6500 Digital controller allows the selection of pressure , velocity or volumetric flow operation in several commonly used engineering units. 2 control relays with adjustable deadbands are provided along with a scalable 4-20 mA process output. Programming is easy using the menu key to access 5 simplified menus which provide access to: security level; selection of pressure, velocity flow operation; selection of engineering unit; K-factor for use with flow sensors; rectangular or circular duct for inputting area in flow applications; set point control or set point and alarm operation; alarm operation as a high, low or high/low alarm; automatic or manual alarm reset; alarm delay; view peak and valley process reading; digital damping for smoothing erratic process applications; scaling the 4-20 mA process output to fit your applications range and field calibration.

Specifications :

Product	J-6500-DP002-P				Description
Type	J-				
Size		6500			5 in.
Voltage			D		DC
			A		AC
Material			P		Engineering Plastic
			A		Aluminum
Pressure Range				001	0-0.1 in w.c.
				002	0-0.25 in w.c.
				003	0-0.5 in w.c.
				004	0-1 in w.c.
				005	0-2.5 in w.c.
				006	0-5 in w.c.
				007	0-10 in w.c.
				009	0-25 in w.c.
				010	0-50 in w.c.
				011	0-100 in w.c.
				013	0.25-0.0.25 in w.c.
				014	0.5-0.0.5 in w.c.
				015	1-0.1 in w.c.
				016	2.5-0.2.5 in w.c.
				017	5-0.5 in w.c.
				018	10-0.10 in w.c.
Display				P	2M outgoing line from rear cover
				N	2M outgoing line from side cover

*1:Compound has no velocity and flow
*2:Over 25 in w.c. has no velocity and flow



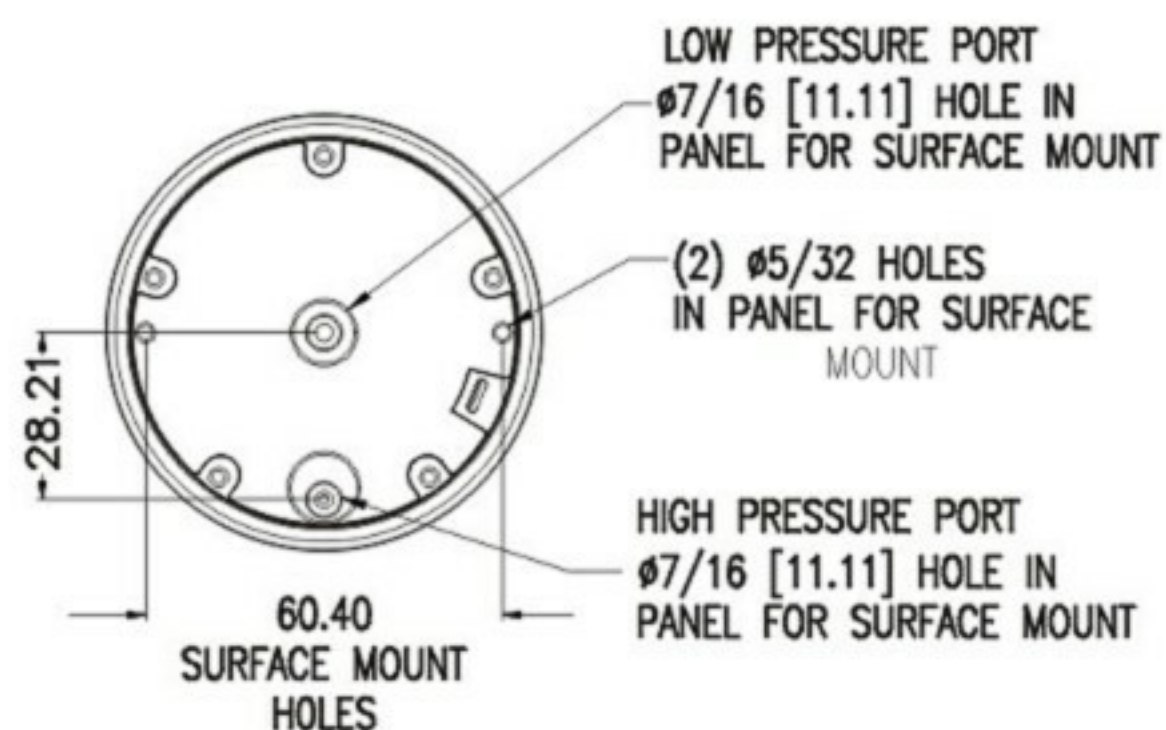
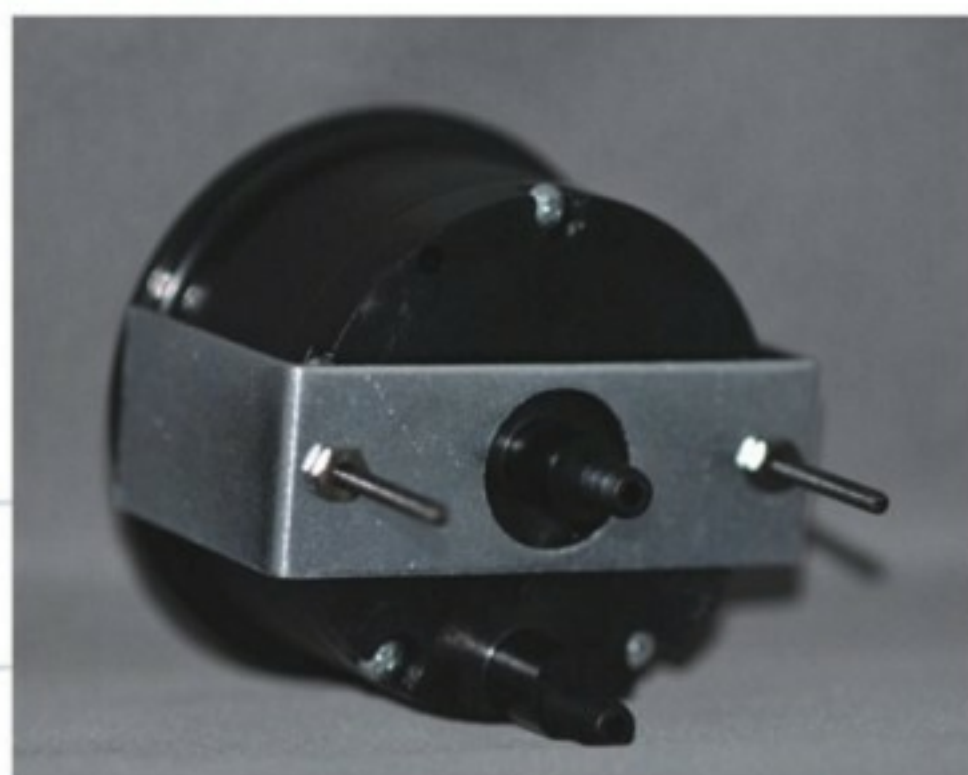
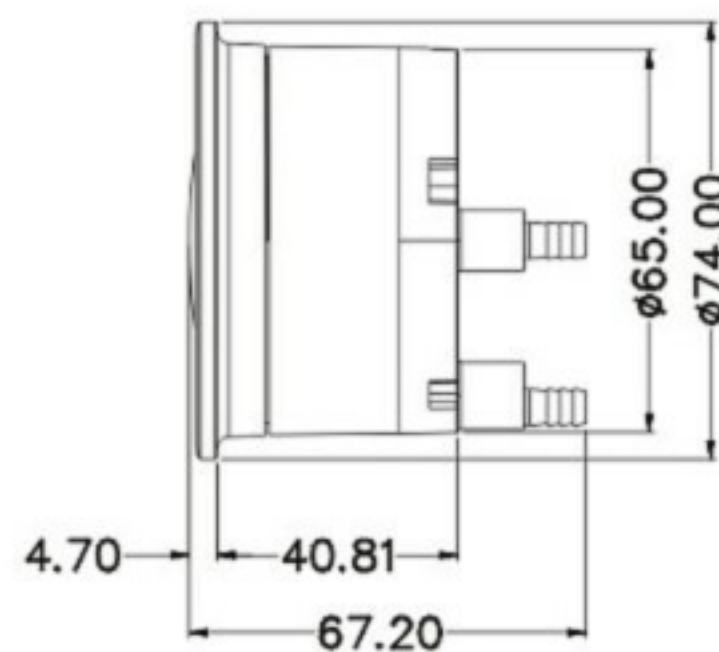
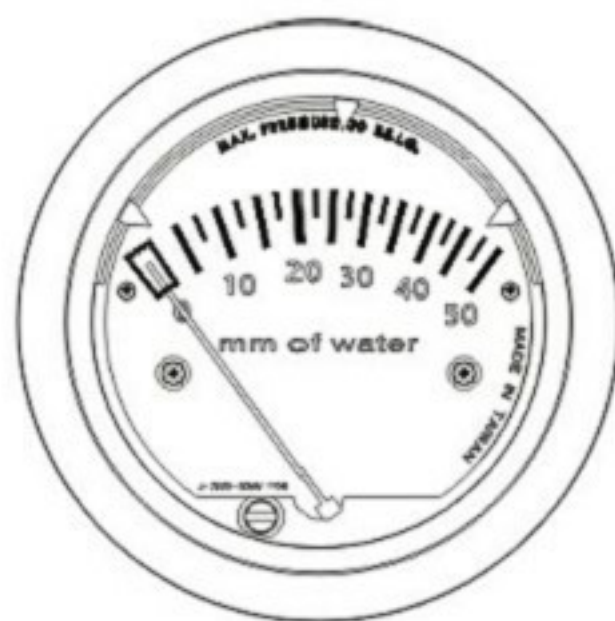
品質 | 技術 | 服務 | 創新

J-2000 AERO TYPE DIFFERENTIAL PRESSURE GAUGES

中、美、日、韓、加、台六國專利

WORLD PATENT of 6 COUNTRIES

CHINA 、 AMERICA 、 JAPAN 、 KOREA 、 CANADA 、 TAIWAN



Model	Range Inches of Water	Model	Range PSI	Model	Range MM of Water	Model	Range Pascals
J-2000-0	0-0.5	J-2205	0-5	J-2000-25MM	0-25	J-2000-125PA	0-125
J-2001	0-1.0	J-2210	0-10	J-2000-50MM	0-50	J-2000-250PA	0-250
J-2002	0-2.0	J-2215	0-15	J-2000-100MM	0-100	J-2000-500PA	0-500
J-2003	0-3.0						
J-2005	0-5.0						
J-2010	0-10						
J-2020	0-20						
J-2040	0-40						
J-2060	0-60						
J-2100	0-100						



J-5000 型氣體微差壓表

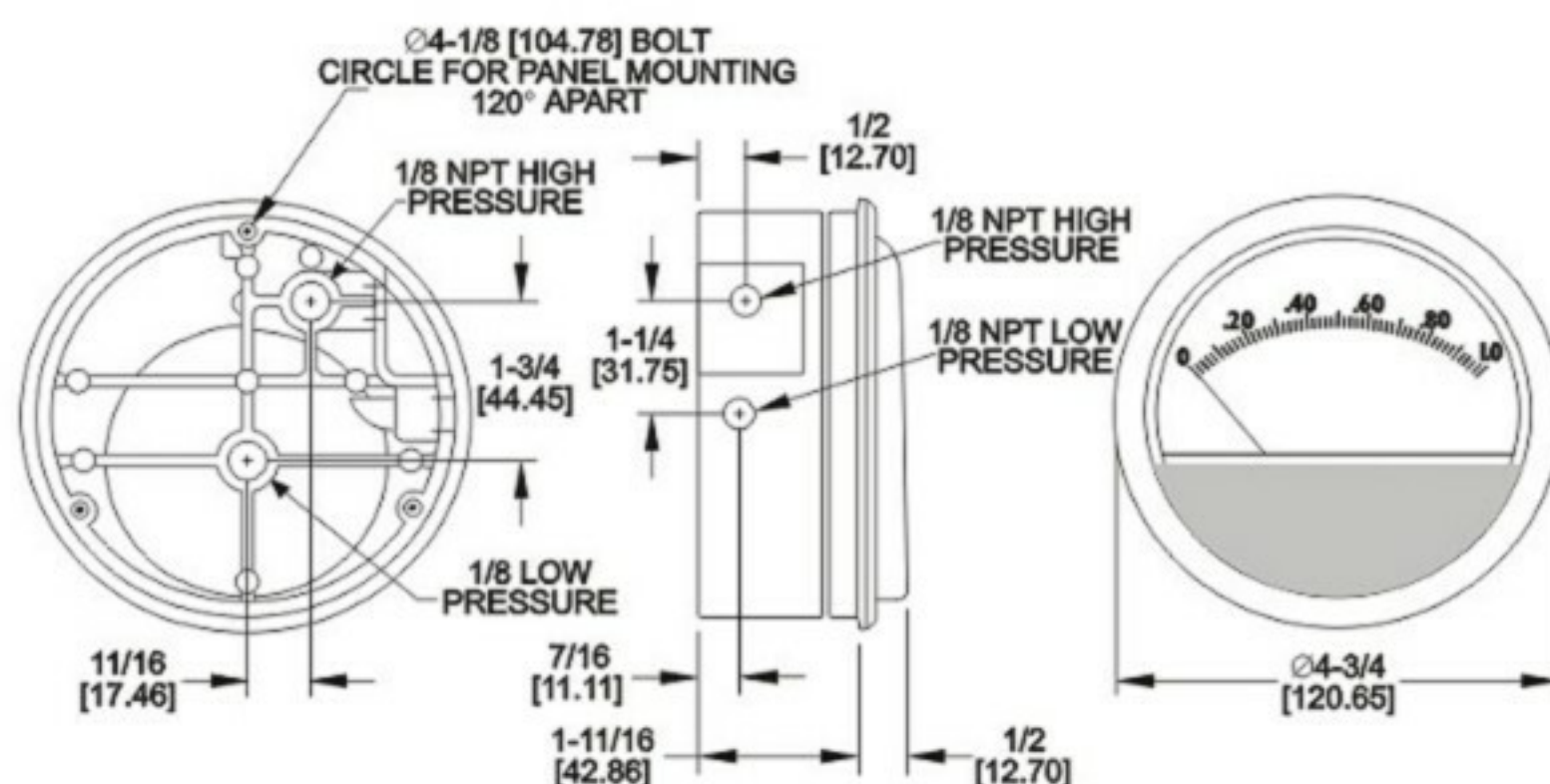
J-5000 AERO TYPE DIFFERENTIAL PRESSURE GAUGES

Quality Technology

中、美、日、韓、加、台六國專利

WORLD PATENT of 6 COUNTRIES

CHINA、AMERICA、JAPAN、KOREA、CANADA、TAIWAN



J-5000型機械式微差壓表是利用簡單,無摩擦的磁體螺旋運動,以橡膠膜片作為敏感元件而進行測量工作的彈性壓力錶. 它能利用指標迅速指示出被測氣體的壓力,無論是正壓,負壓或差壓. 此設計具有防震,搖動和過壓的功能. 而且表內無需充注液體,也就沒有氣化,凍結,異味的問題出現.

J-5000 type Differential Pressure Gauge make used of simplicity; have no friction of the magnetic element of spiral movement, with rubber film slice as the sensitive component in measuring flexibility pressure. It can make use of index sign to indicate the measuring of gaseous pressure quickly, no matter of positive, negative or differential pressure. This design has quakeproof, shaking and over pressure function. Nevertheless, there's no need to have liquid filling inside, therefore, no gaseous, freezing, and strange smell will appears in this matter.

J-5000型差壓錶被廣泛應用於測量風扇和鼓風機的壓力,篩檢程式阻力,風速,爐壓,孔板差壓,同時也用於燃燒過程中的空氣煤氣比值控制及自動閥控制,以及醫療保健設備中的血壓和呼吸壓力監測.

J-5000 type's differential pressure gauges is extensively been applied in pressure of measuring the fan and drum breeze machine, screening out the program resistance, wind velocity, the stove presses, hole plank differential gauge, also be used for burnable the air coal gas specific value within process control and the automatic valve control, and the medical treatment care for the blood pressure equipment and to monitor the breathe pressure.

過程連接: 高壓和低壓孔均為1/8" 錐管螺紋, 兩組(側面和背面各一組)
Process conjunction: high pressure and low-pressure hole of 1/8"
drill tube thread, 2 set(side and back each)

標準附件: 2個1/8" NPT堵頭, 2個1/8" 螺紋橡膠管接頭, 和3個帶螺釘的嵌入式安裝螺釘卡.
Standard fitting: 2 pcs 1/8" NPT head, 2 pcs 1/8" spiral plastic tube;
& 3 pcs with bolt for bolt card installation.

外殼材質: 壓模鑄鋁或含尼龍的ABS塑膠.

Casing Material: cast aluminum press or Nylon with ABS plastic

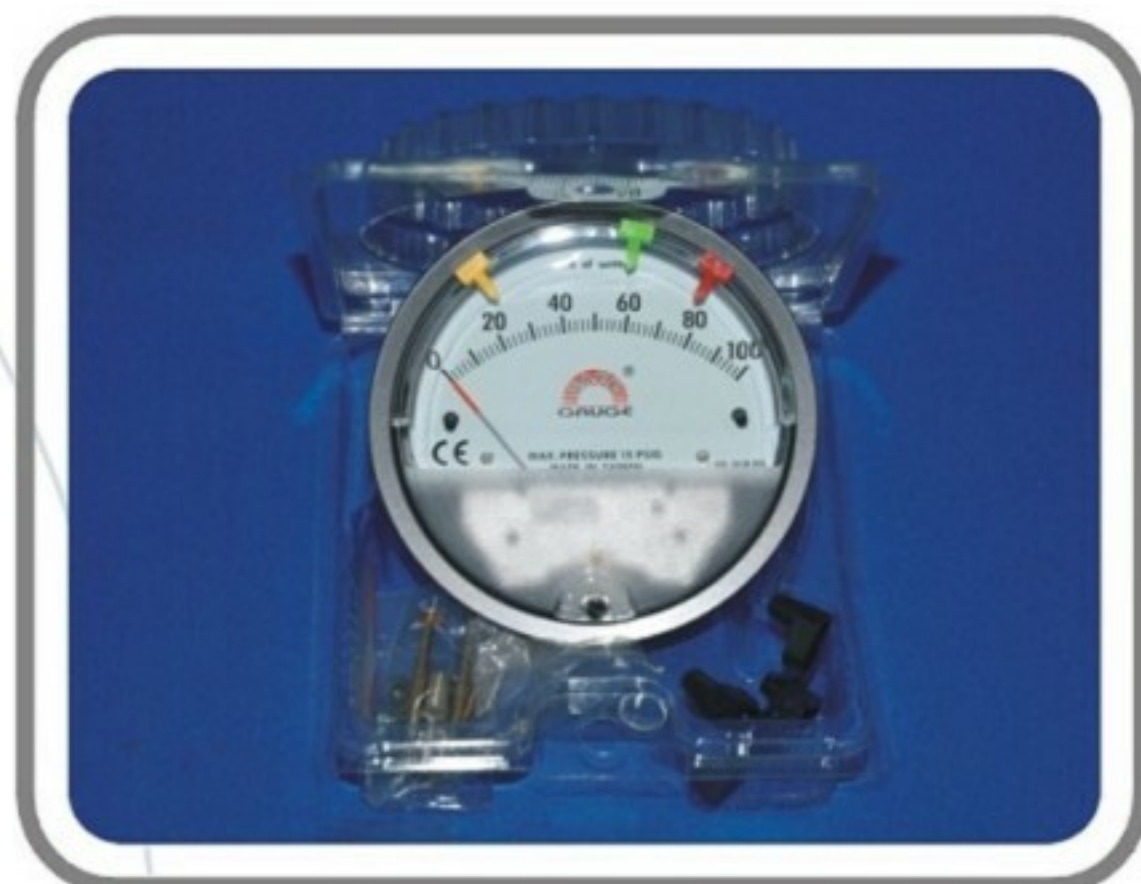
精確度: 標準為±2%FS

Accuracy: Standard ±2%FS

環境溫度: -7 ~ 60°C

Environmental temperature: -7 ~ 60°C

Model	Range Inches of Water	Model	Range PSI	Model	Range MM of Water	Model	Range, kPa
J-5000-00N+.. J-5000-00+.. J-5000-0+.. J-5001 J-5002 J-5003 J-5004 J-5005 J-5006 J-5008 J-5010 J-5012 J-5015 J-5020 J-5025 J-5030 J-5040 J-5050 J-5060 J-5080 J-5100 J-5120 J-5150 J-5160 J-5180 J-5250	.05-0-.2 0-.25 0-.50 0-1.0 0-2.0 0-3.0 0-4.0 0-5.0 0-6.0 0-8.0 0-10 0-12 0-15 0-20 0-25 0-30 0-40 0-50 0-60 0-80 0-100 0-120 0-150 0-160 0-180 0-250	J-5201 J-5202 J-5203 J-5204 J-5205 J-5210* J-5215* J-5220* J-5230**	0-1 0-2 0-3 0-4 0-5 0-10 0-15 0-20 0-30	J-5000-6MM+.. J-5000-10MM+.. J-5000-15MM J-5000-25MM J-5000-30MM J-5000-50MM J-5000-80MM J-5000-100MM J-5000-125MM J-5000-150MM J-5000-200MM J-5000-250MM J-5000-300MM	0-6 0-10 0-15 0-25 0-30 0-50 0-80 0-100 0-125 0-150 0-200 0-250 0-300	J-5000-0.5KPA J-5000-1KPA J-5000-1.5KPA J-5000-2KPA J-5000-2.5KPA J-5000-3KPA J-5000-4KPA J-5000-5KPA J-5000-8KPA J-5000-10KPA J-5000-15KPA J-5000-20KPA J-5000-25KPA J-5000-30KPA	0-0.5 0-1 0-1.5 0-2 0-2.5 0-3 0-4 0-5 0-8 0-10 0-15 0-20 0-25 0-30
		Model	Range, CM of Water	Zero Center Ranges		Zero Center Ranges	
		J-5000-15CM J-5000-20CM J-5000-25CM J-5000-50CM J-5000-80CM J-5000-100CM J-5000-150CM J-5000-200CM J-5000-250CM J-5000-300CM	0-15 0-20 0-25 0-50 0-80 0-100 0-150 0-200 0-250 0-300	J-5300-6MM+.. J-5300-10MM+.. J-5300-20MM+..	3-0-3 5-0-5 10-0-10	J-5300-1KPA J-5300-2KPA J-5300-2.5KPA J-5300-3KPA	.5-0-.5 1-0-1 1.25-0-1.25 1.5-0-1.5
		Zero Center Ranges		Model	Range,Pa		
				J-5000-60NPA+.. J-5000-60PA+.. J-5000-100PA+.. J-5000-125PA+.. J-5000-250PA J-5000-300PA J-5000-500PA J-5000-750PA J-5000-1000PA	10-0-50 0-60 0-100 0-125 0-250 0-300 0-500 0-750 0-100x10		
Zero Center Ranges		J-5300-4CM J-5300-10CM J-5300-30CM	2-0-2 5-0-5 15-0-15	Zero Center Ranges			
J-5300-00+.. J-5300-0+.. J-5301 J-5302 J-5304 J-5310 J-5320 J-5330	0.125-0-0.125 .25-0-.25 .5-0-.5 1-0-1 2-0-2 5-0-5 10-0-10 15-0-15	.Accuracy +/-3% ..Accuracy +/-4%		Model	Range,Pa		
				J-5300-60PA+.. J-5300-100PA+.. J-5300-120PA J-5300-200PA J-5300-250PA J-5300-300PA J-5300-500PA J-5300-1000PA	30-0-30 50-0-50 60-0-60 100-0-100 125-0-125 150-0-150 250-0-250 500-0-500		





J-6800 微差壓傳送器

Quality Technology



CE

應用領域：

- 冷凍空調系統
- 工業用通風設備
- 監控氣體濾器及通風機
- 負壓隔離病房
- 氣體流量監控
- 空氣壓力監控
- 機械及系統工程
- 環境工程

特性：

- | |
|-------------------|
| 壓電晶片感應具高精確度 |
| 適用於空氣，非腐蝕性，不可燃性。 |
| 4 位數 LCD 顯示視窗 |
| 具零點校正按鍵，可做零點調整 |
| 可以使用插針選擇反應時間及量測範圍 |
| 體積輕巧、安裝容易、穩定性高 |

規格：

工作電壓	12~30VDC	操作溫度	0~60℃
輸出訊號	4~20mA	濕度	0-95%RH (非冷凝)
最大消耗電流	32mA	無LCD重量	80 公克
最大負載	800Ω	有LCD重量	105 公克
材質	PC	防護等級	IP54
電力接線	14AWG~22AWG	反應時間	插針選擇 0.8/4s
壓力接線	公牙 Ø 5.00mm 及 6.3mm		
最大壓力	最大量程3倍		
破裂壓力	最大量程4倍		

型號：

型號	量測範圍 1	量測範圍 2	精確度%F.S** 操作溫度 0~60 °C 量測範圍1、2	長時間穩定性 標準一年
J-6800-100-2W	0...50Pa	0...100Pa	± 0.5%	≤ ±3Pa
J-6800-± 100-2W	-50...+50Pa	-100...+100Pa	± 0.5%	≤ ±3Pa
J-6800-±500-2W	-250...+250Pa	-500...+500Pa	± 0.5%	≤ ± 8Pa
J-6800-300-2W	0...100Pa	0...300Pa	± 0.5%	≤ ±3Pa
J-6800-500-2W	0...250Pa	0...500Pa	± 0.5%	≤ ±8Pa
J-6800-1000-2W	0...500Pa	0...1000Pa	± 0.5%	≤ ±8Pa
J-6800-2.5K-2W	0...1500Pa	0...2500Pa	± 0.5%	≤ ±24Pa
J-6800-5K-2W	0...2500Pa	0...5000Pa	± 0.5%	≤ ±24Pa
J-6800-0.5" w.c.-2W	0...0.25" w.c.	0...0.5" w.c.	± 0.5%	≤ ±3Pa
J-6800-5" w.c.-2W	0...2.5" w.c.	0...0.5" w.c.	± 0.5%	≤ ±24Pa
J-6800-10" w.c.-2W	0...10" w.c.		± 0.5%	≤ ±24Pa
J-6800-15" w.c.-2W	0...15" w.c.		± 0.5%	≤ ±24Pa
J-6800-±0.5" w.c.-2W	-0.25"...+0.25" w.c.	-0.5"...+0.5" w.c.	± 0.5%	≤ ±3Pa

產品編號：-D代表LCD顯示

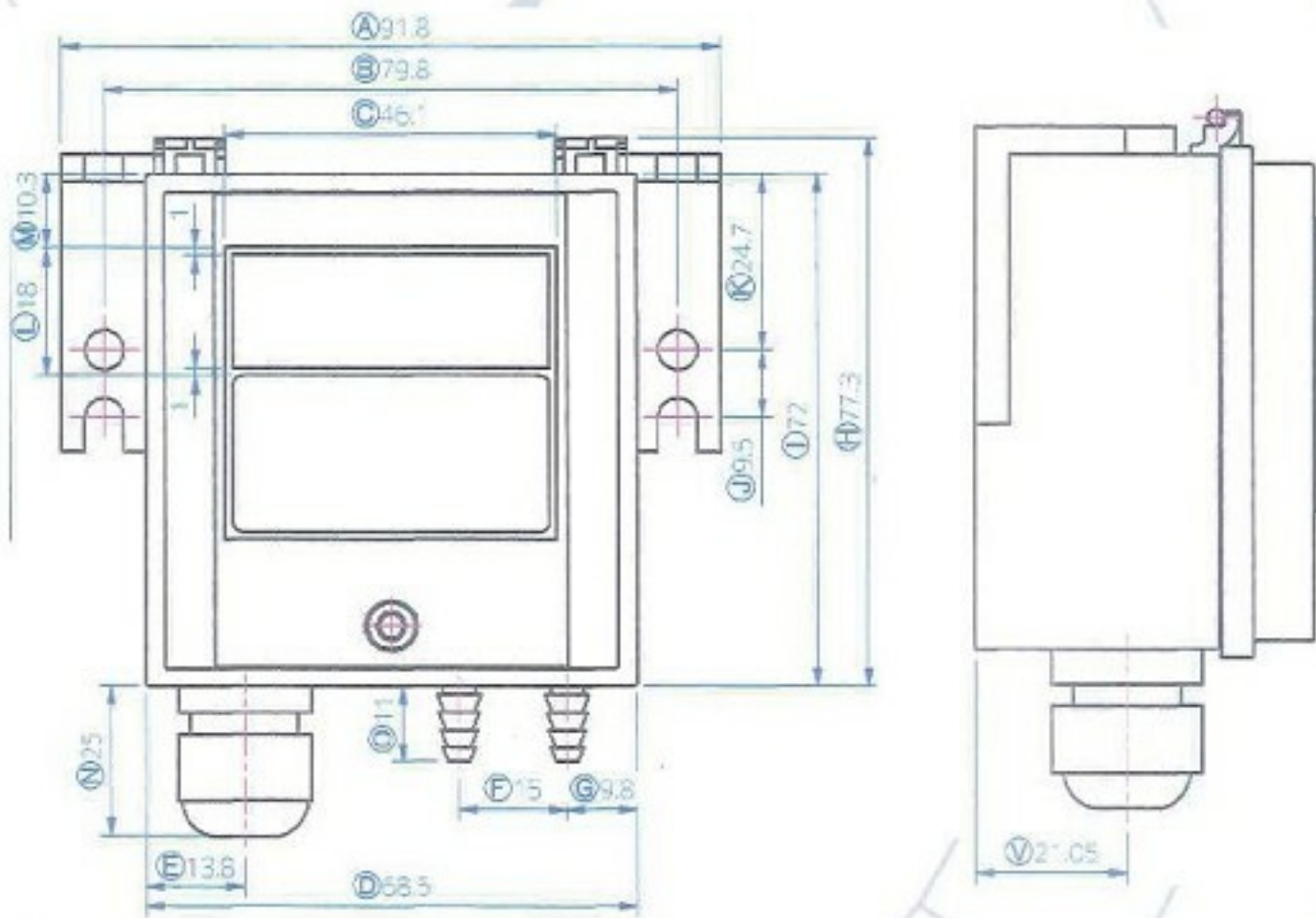
**%F.S為最大壓力範圍(包括：一般精度，溫度漂移，線性，遲滯，以及重複錯誤)

精度：±0.5%

認證：CE

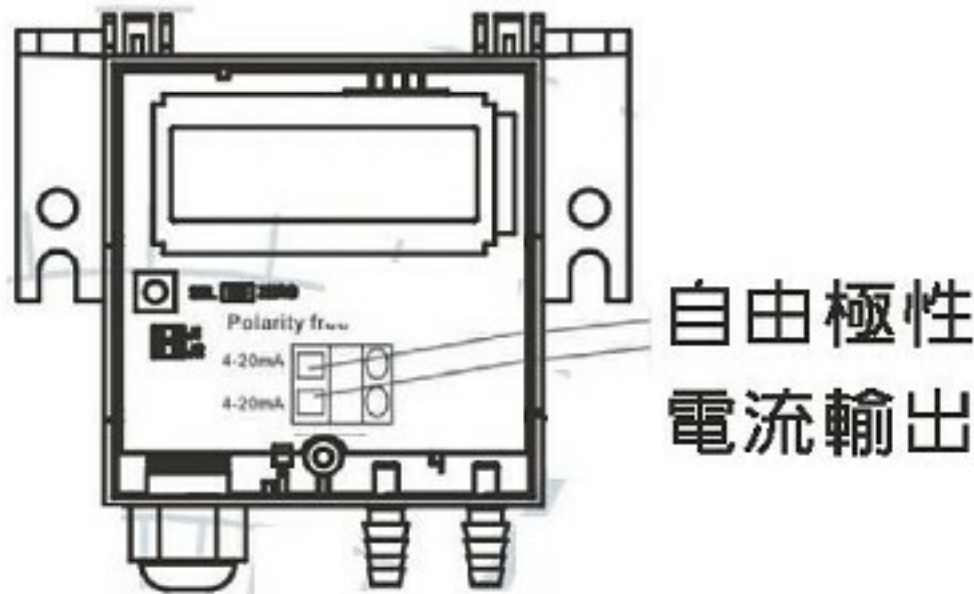
尺寸圖：

外觀尺寸



接線圖：

接線圖(2線式)



自由極性
電流輸出



Quality Technology

J-6800 Differential Pressure Transmitter



CE

Application:

- Air conditional
- Fan industrial
- Filter and fan
- Negative pressure isolation room
- Flow of air controller
- Air pressure controller
- Engineering of machinery and system
- Environment engineering system

Features:

High Accuracy Sensor
Service in Air and non-combustible , compatible gases.
4 Digital LCD Display
Adjustable Zero set point
Option of Response Time and Measure Range
Light dimension 、 Easy set

Specification:

Power Requirements	12 ~30VDC	Temperature Limits	0~60 °C
Output Signal	4~20mA	Humidity	0-95%RH(非冷凝)
MAX Current	32mA	No LCD Display Weight	80 grams
Power Consumption	800Ω	With LCD Display Weight	105 grams
Material	PC	Water Proof	IP54
Power wire	14AWG~22AWG	Response Time	0.8/4s
Pressure Wire	Male ϕ 5.00mm and 6.3mm		
Max Pressure	最大量程3倍		
Dimension Pressure	最大量程4倍		

Model summary:

2 range model	Measureing Range1	Measureing Range2	Accuracy% FS ** Over Operation Temp. 0~60 °C Range: 1 and 2	Long term Stability Typical 1 year
J-6800-100-2W	0...50Pa	0...100Pa	± 0.5%	≲ ± 3Pa
J-6800-± 100-2W	-50...+50Pa	-100...+100Pa	± 0.5%	≲ ± 3Pa
J-6800-± 500-2W	-250...+250Pa	-500...+500Pa	± 0.5%	≲ ± 8Pa
J-6800-300-2W	0...100Pa	0...300Pa	± 0.5%	≲ ± 3Pa
J-6800-500-2W	0...250Pa	0...500Pa	± 0.5%	≲ ± 8Pa
J-6800-1000-2W	0...500Pa	0...1000Pa	± 0.5%	≲ ± 8Pa
J-6800-2.5K-2W	0...1500Pa	0...2500Pa	± 0.5%	≲ ± 24Pa
J-6800-5K-2W	0...2500Pa	0...5000Pa	± 0.5%	≲ ± 24Pa
J-6800-0.5" w.c.-2W	0...0.25" w.c.	0...0.5" w.c.	± 0.5%	≲ ± 3Pa
J-6800-5" w.c.-2W	0...2.5" w.c.	0...0.5" w.c.	± 0.5%	≲ ± 24Pa
J-6800-10" w.c.-2W	0...10" w.c.		± 0.5%	≲ ± 24Pa
J-6800-15" w.c.-2W	0...15" w.c.		± 0.5%	≲ ± 24Pa
J-6800-± 0.5" w.c.-2W	-0.25"...+0.25" w.c.	-0.5"...+0.5" w.c.	± 0.5%	≲ ± 3Pa

Item Number:-D with LCD display

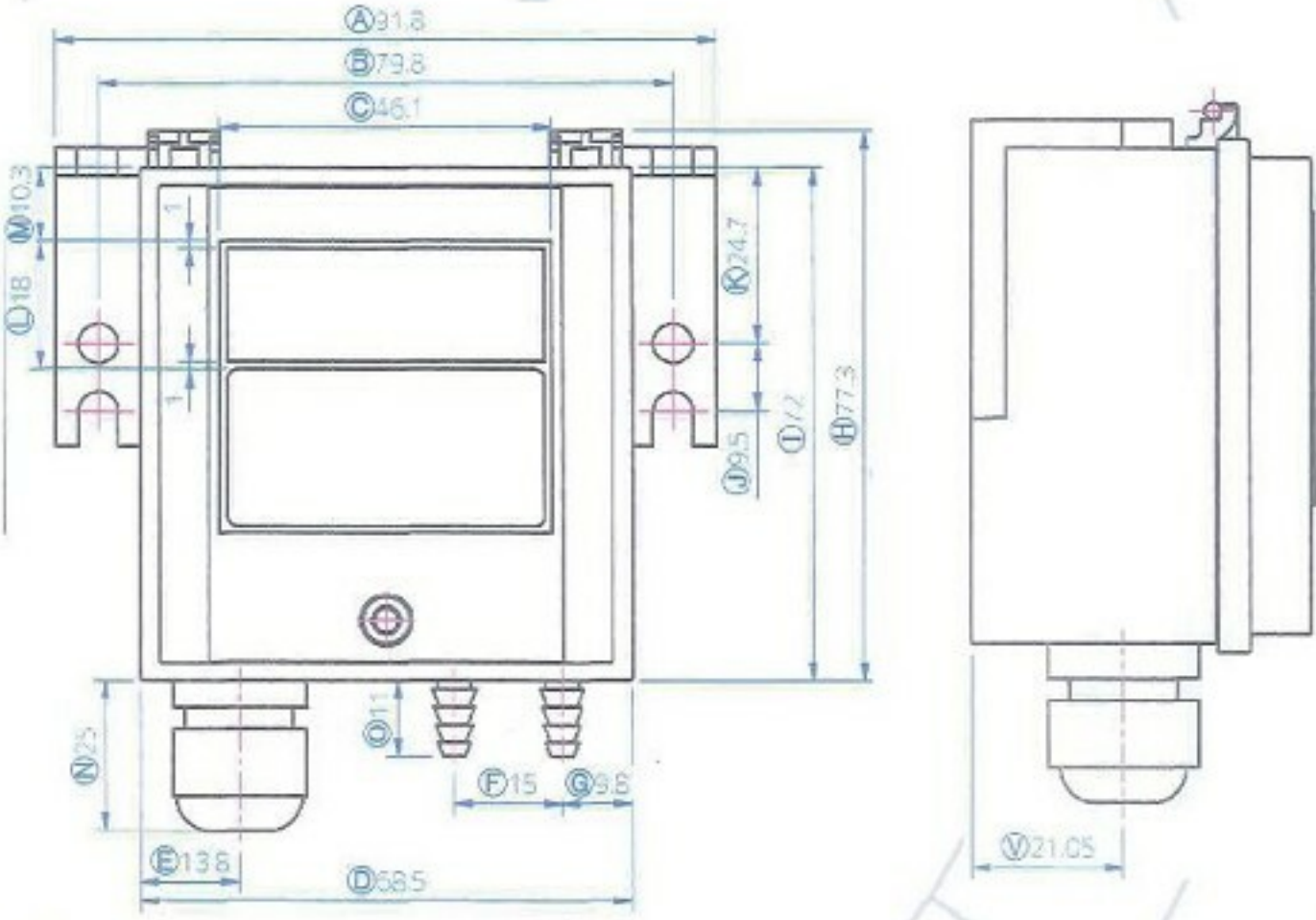
**%F.S from Highest pressure range(include: general accuracy, temperature drift, linearity, hysteresis and repetition error)

±0.5%F.S.

Approvals:CE

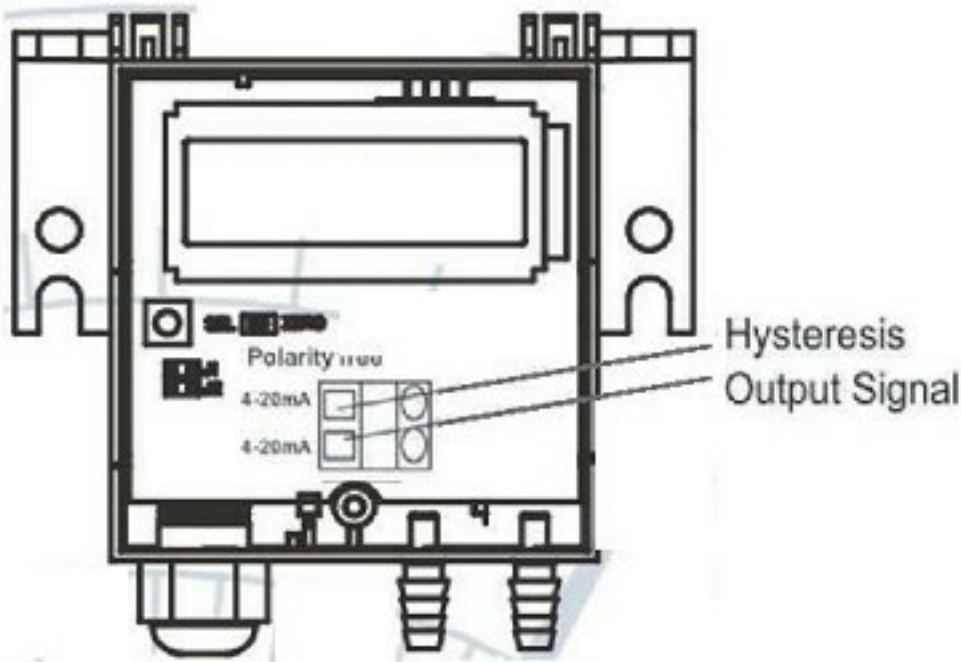
Dimension:

Dimension



Electric Wiring:

Electric Wiring (2 wires)





J-7800 微差壓傳送器

Quality Technology



CE

應用領域：

- 冷凍空調系統
- 工業用通風設備
- 監控氣體濾器及通風機
- 負壓隔離病房
- 氣體流量監控
- 空氣壓力監控
- 機械及系統工程
- 環境工程

特性：

壓電晶片感應具高精確度
適用於空氣，非腐蝕性，不可燃性
LCD 背光顯示視窗
具零點校正按鍵，可做零點調整
可以使用插針選擇 2 種量測範圍
可通過按鍵選擇反應速度
體積輕巧、安裝容易、穩定性高
6 種測量單位可通過按鍵選擇
支援 RS485 Modbus RTU(可選)

規格：

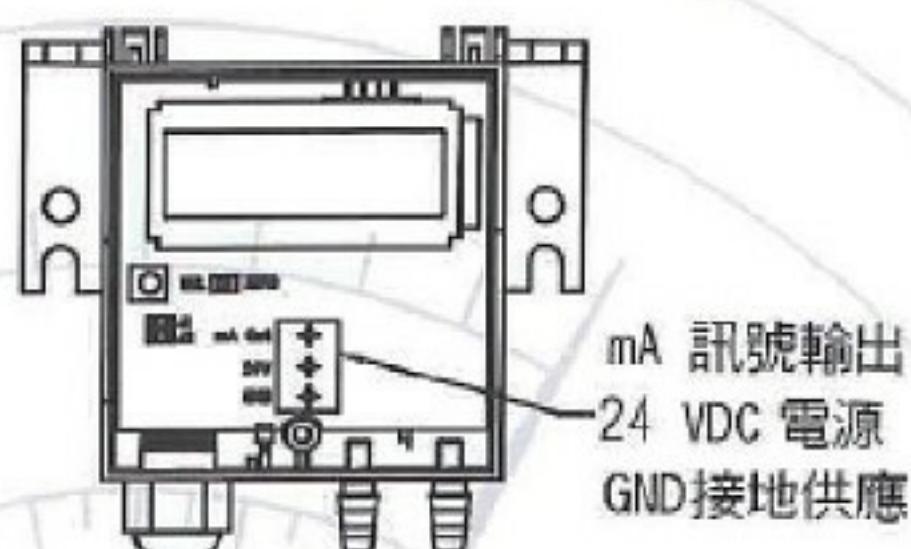
工作電壓	12~30 V DC	最大壓力	最大量程 3 倍
輸出訊號	4~20mA及RS-485	破裂壓力	最大量程 4 倍
精確度	±0.5% F.S(@25±3℃)	操作溫度	0~60℃
長期穩定性	±1% F.S	儲存溫度	-10~70 °C
最大消耗電流	32mA	濕度	0-95%RH (非冷凝)
最大負載	800 Ω	重量	105g/80g(無顯示)
材質	PC	防護等級	IP54
電力接線	14AWG~22AWG	反應時間	通過按鍵可選擇 0.1~10s
壓力接線	公牙Ø5.00mm及6.3mm	顯示器	(可選) 2 行顯示 (12 個字符 / 行)

品質 | 技術 | 服務 | 創新

產品編號:例J-7800-3W-01-1-D(有顯示4~20mA)
例J-7800-3W-01-1-X(無顯示4~20mA)

產品編號:例J-7800-MOD-01-1-D(有顯示RS485)
例J-7800-MOD-01-1-X(無顯示RS485)

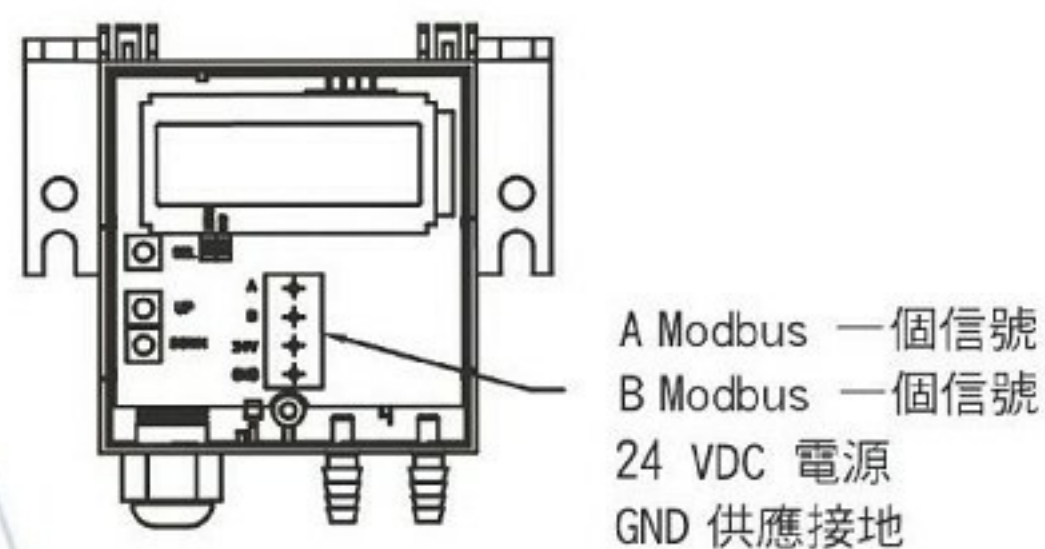
- 1 鬆開 + 和 - 兩個入口管內的壓力。
- 2 長按 SET 按鈕 2 秒進行歸零，直到紅色 LED 指示燈亮起。
- 3 等到指示燈熄滅，再進行連接軟管於壓力入口。



Technical drawing of the front view of a rectangular component. The drawing shows a central rectangular body with a hexagonal bolt on the left and two circular holes on the right. The dimensions are as follows:

- Overall height: 48.00
- Distance from left edge to bolt center: 25.55
- Distance from bolt center to first circular hole center: 21.50
- Distance from bolt center to second circular hole center: 79.80
- Overall width: 91.80

- 1 鬆開 + 和 - 兩個入口管內的壓力。
- 2 長按 SET 按鈕 2 秒進行歸零，直到紅色 LED 指示燈亮起。
- 3 等到指示燈熄滅，再進行連接軟管於壓力入口。





Quality Technology

J-7800 Differential Pressure Transmitter



CE

Application:

- Air conditional
- Fan industrial
- Filter and fan
- Negative pressure isolation room
- Flow of air controller
- Air pressure controller
- Engineering of machinery and system
- Environment engineering system

Features:

- High Accuracy Sensor
- Service in air non-combustible, and compatible
- LCD display
- Adjustable Zero set point
- 2 kinds range measure
- Menu option response time
- Light weight, easy install, well stability
- 6 units option
- Support RS485 Modbus RTU (option)

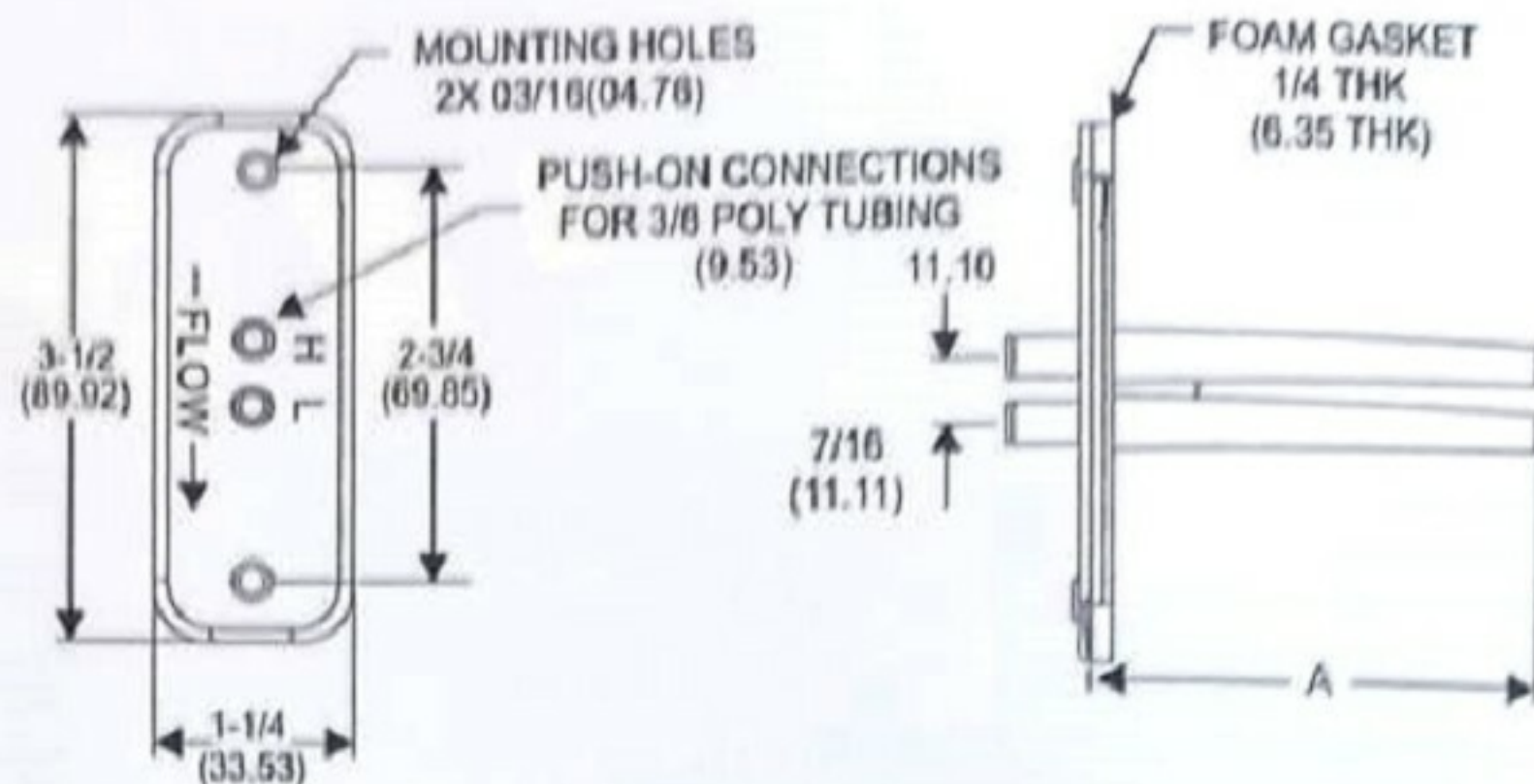
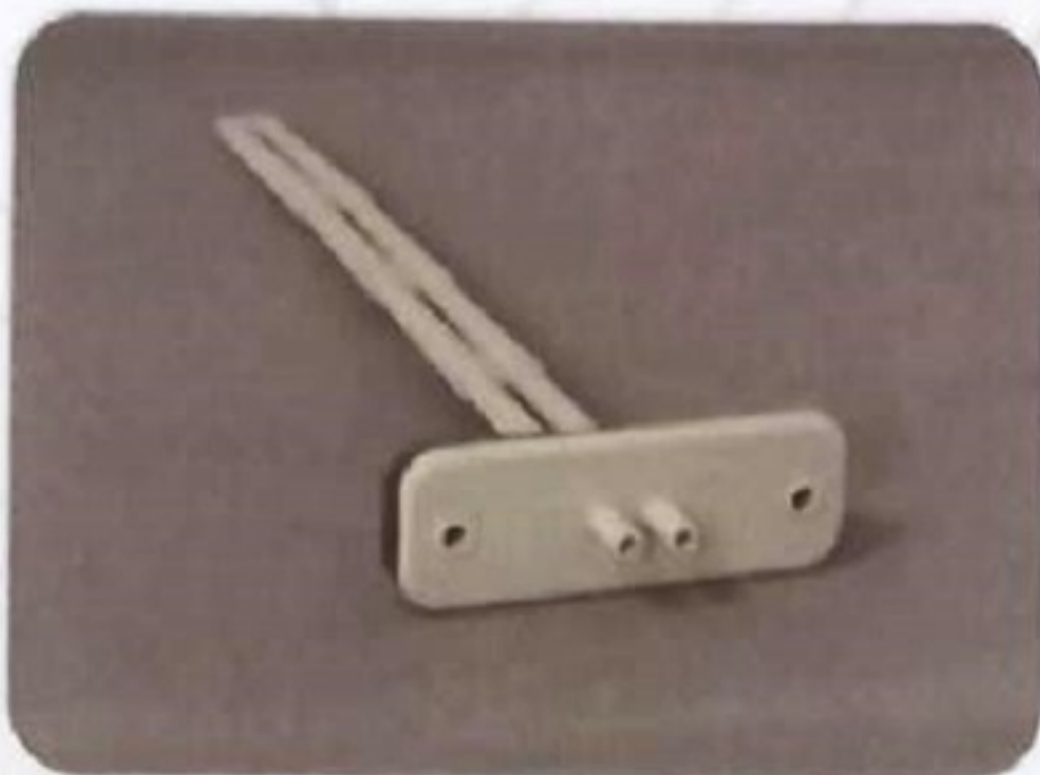
Specification:

Power Requirements	12-30VDC	Max pressure	Range*3
Output signal	4-20mA/RS485	Dimension pressure	Range*4
Accuracy	$\pm 0.5\%$ F.S(@25 $\pm 3^{\circ}\text{C}$)	Temperature Limits	0-60 $^{\circ}\text{C}$
Long term stability	$\pm 1.0\%$	Storage Temperature	-10~70 $^{\circ}\text{C}$
Max Current	32mA	Humidity	0-95%RH
Power Consumption	800 Ω	Weight	105g/80g(No display)
Material	PC	Water Proof	IP54
Power wire	14AWG~22AWG	Response Time	menu option 0.1~10s
Pressure wire	Male connection 5.00mm&6.35mm	Display	(Option) 2 Lines display (12 character)



Quality Technology

Lightweight Averaging Flow Sensor



CE

Application

The Averaging Flow Sensor is ideal for sensing differential pressure in the inlet section of variable air volume terminal units and fan terminal units. The Serial SSS-1000 is Lightweight Averaging. It is use to measure the amount of HP, LP and differential of flow. In Flow system, the problems of space room are always no enough for pipe and cause flow move problems. Multi-point pressure detection hole, the average gas flow pipeline characteristic curve, and can effectively improve the current measurement of the interference problem. Flow Sensors Units can also be used to sense differential pressure at other locations in the main or branch duct systems.

Size

Serial Number	Length(A)
SSS-1002	3-5/32" (8.02 cm)
SSS-1003	5-13/32" (13.73 cm)
SSS-1004	7-21/32" (19.55 cm)
SSS-1005	9-29/32" (25.26 cm)
SSS-1006	12-1/2" (31.75 cm)
SSS-1007	14-3/4" (37.47 cm)
SSS-1008	17-1/8" (43.50 cm)
SSS-1009	19-13/32" (49.29 cm)
SSS-1010	21-21/32" (55.01 cm)
SSS-1011	23-29/32" (60.72 cm)

Measuring principle

Average wind speed measured whether it is a probe inserted into the pipeline along the diameter direction of fluid flow. Looking multi-point pressure taps measuring the total pressure and total pressure tube mesh connectivity, leads to the average total pressure P1 'back flow surface static tube connected, leads to the static pressure P2. The average wind speed measuring tube is the difference between the total pressure and static pressure (dynamic pressure) to measure the flow rate measuring fluid. Average velocity measurement tube output dynamic pressure (ΔP) and the average fluid velocity (V) can be derived according to the Bernoulli's theorem.

INSTALLATION

The Series 1000 utilizes 1/4" (6mm) ID, 3/8" OD tubing. First check that there are no sharp bends in the tubing at any connection. Bends and creases may leak overtime as the tubing ages.

Connect the "H" Port to the high input on the differential pressure gage, transmitter, or switch. Connect the "L" Port to the low input on the differential pressure gage, transmitter, or switch.

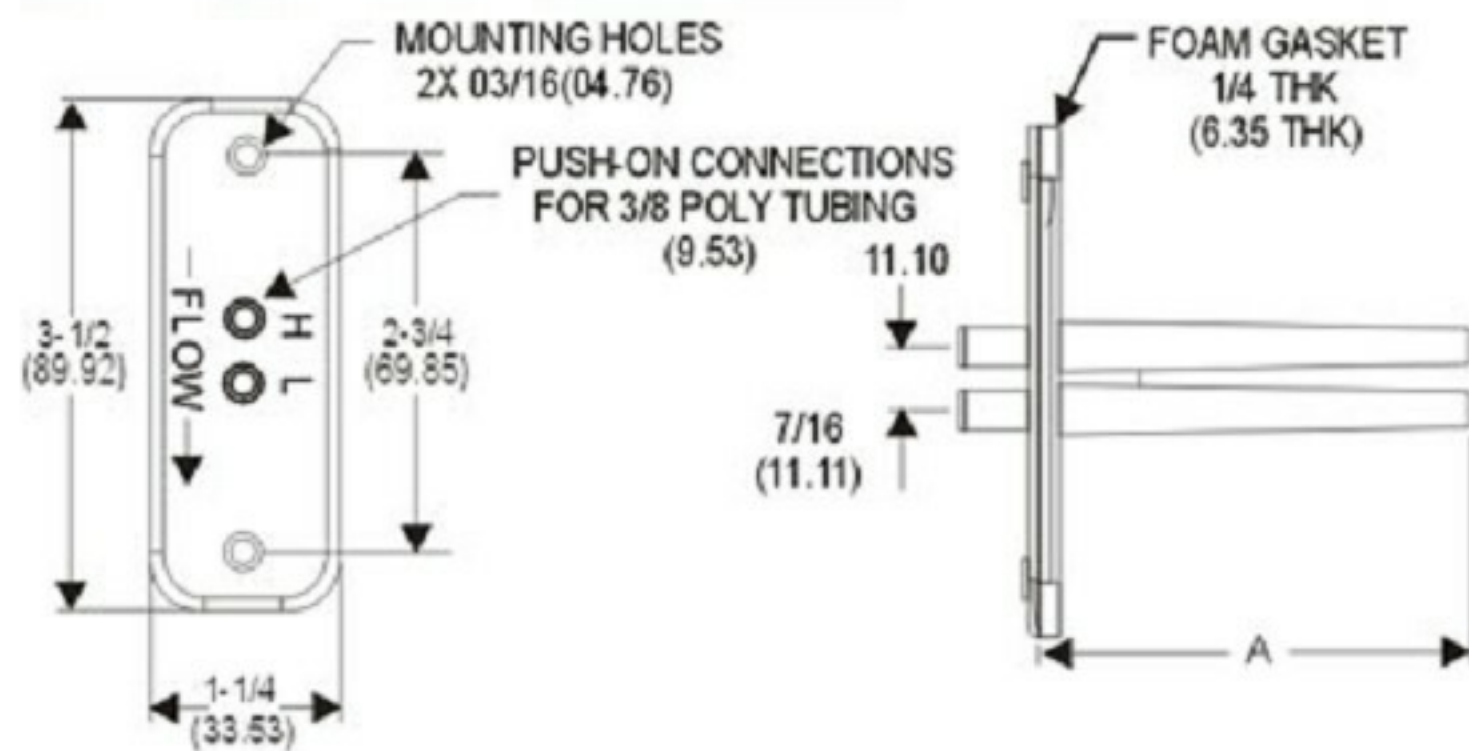
SPECIFICATIONS

Service: Air and compatible gases.
 Wetted Materials: ABS/polycarbonate. / PVDF
 Operating: 4 to 50°C / ABS
 -10 to 160°C / PVDF
 Connection: 1/4" (6 mm) ID, 3/8" (10 mm) OD tubing.
 Mounting Orientation: Integral flange with gasket.
 Weight: 1 oz (28 g).



Quality Technology

Lightweight Averaging Flow Sensor



Application

The Averaging Flow Sensor is ideal for sensing differential pressure in the inlet section of variable air volume terminal units and fan terminal units. The Serial SSS-1000 is Lightweight Averaging. It is used to measure the amount of HP, LP and differential of flow. In Flow system, the problems of space room are always not enough for pipe and cause flow move problems. Multi-point pressure detection hole, the average gas flow pipeline characteristic curve, and can effectively improve the current measurement of the interference problem. Flow Sensors Units can also be used to sense differential pressure at other locations in the main or branch duct systems.



Service Innovation

品質 | 技術 | 服務 | 創新

Size

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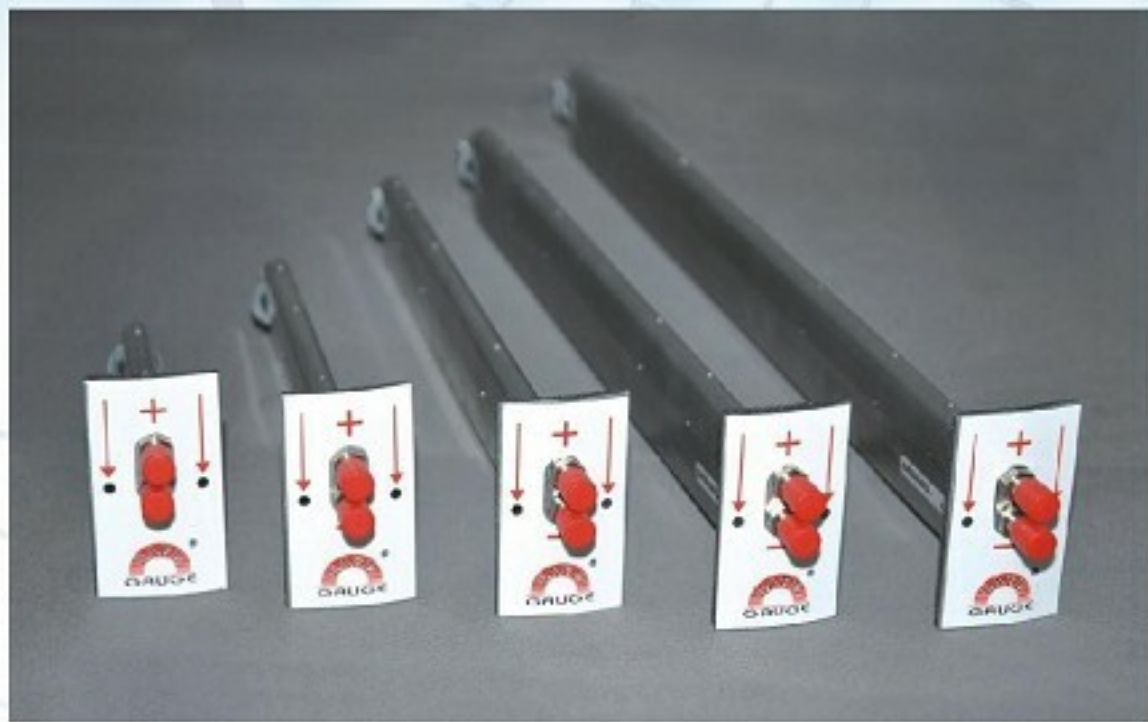
SPECIFICATIONS

Service: Air and compatible gases.
Wetted Materials: ABS/polycarbonate. / PVDF
Operating: 4 to 50°C) / ABS
 -10 to 160°C / PVDF
Connection: 1/4" (6 mm) ID, 3/8" (10 mm) OD tubing.
Mounting Orientation: Integral flange with gasket.
Weight: 1 oz (28 g).



SSA 平均風速風量測片

Quality Technology



- ※特性: 華記科技SSA型平均風速風量測片可固定於方形或圓型管道內，是用於測量風速及風量之簡易方式，當搭配本司J系列數位式微差壓傳送器時，平均風速風量測片可確保精確顯示及控制或記錄風速和風量，並可用於其它品牌所有種類之風量系統;當正確安裝平均風速風量測片於管道內時，測片可產生動壓，且風量與動壓之平方根成正比。
- ※應用: 實驗室中的送排風系統、空調送排風系統、空氣流通測試設備、煙氣淨化和排氣系統、吸塵系統。
- ※技術: 管道內需使用測片的數量和管道的形狀與需要測量之精確度不同而定。(一組或多組測片依應用不同而定, 請參考安裝圖)

※規格:

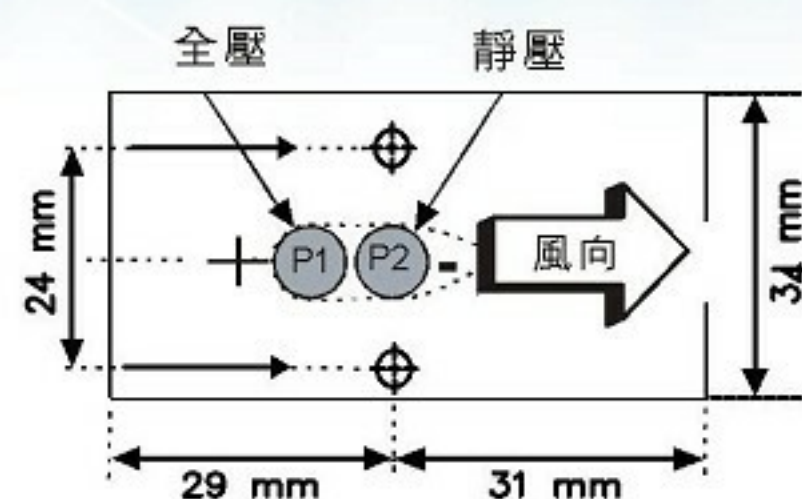
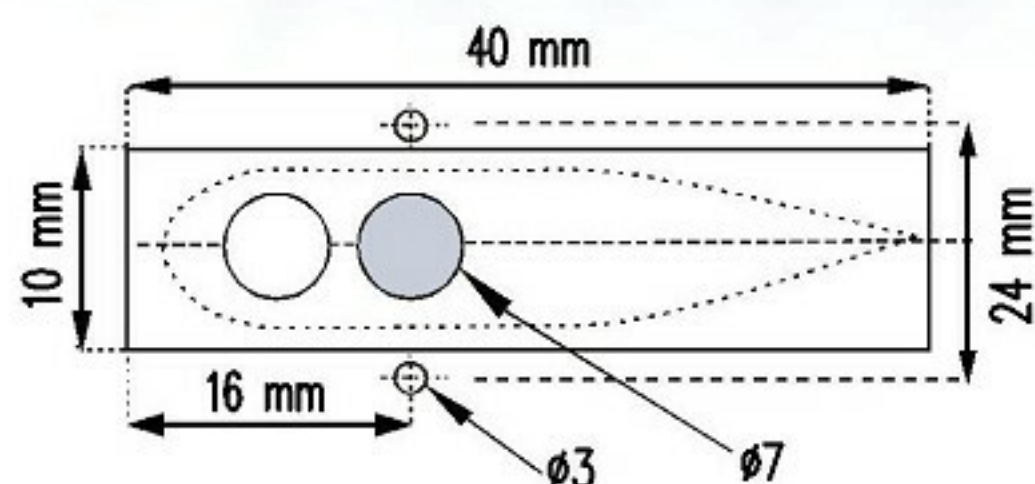
材 質	擠制鋁型材，鍍鋅鋼板支架，不銹鋼螺絲
系 數	0.8165
操作溫度	最高至210℃
最大壓力	靜壓2bar
精 確 度	<0.3%(依差壓計及測片數量而定) (含重覆性)
建 議	測片安裝後將連接差壓計風量值調整至與精密型風速計所測量之實際風量值相同

※選型表:

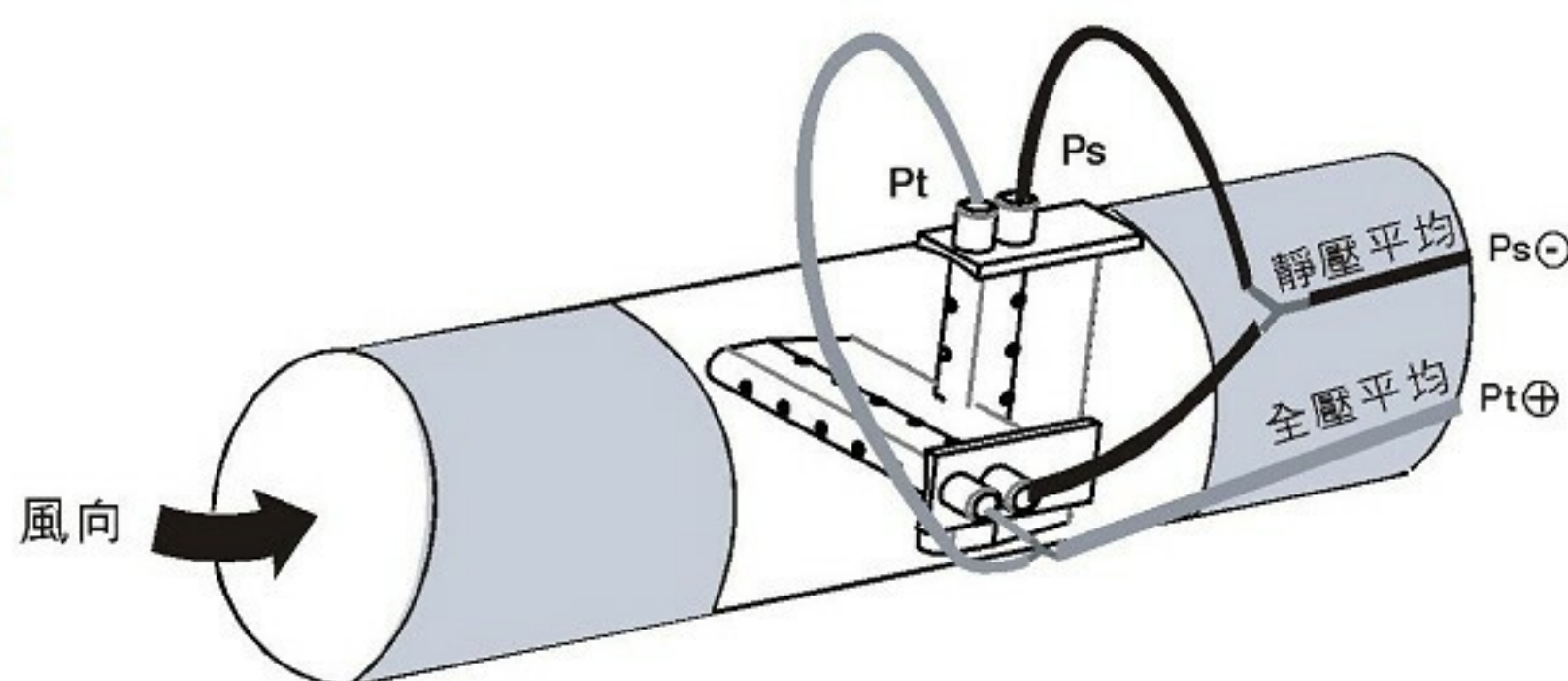
測片型號	測片長度(mm)	測片型號	測片長度(mm)
SSA-100	100mm	SSA-125	125mm
SSA-160	160mm	SSA-200	200mm
SSA-250	250mm	SSA-315	315mm
SSA-400	400mm	SSA-500	500mm
SSA-630	630mm	SSA-800	800mm
SSA-1000	1000mm	SSA-1500	1500mm
SSA-2000	2000mm	SSA-2500	2500mm
SSA-3000	3000mm		

其它長度測片可依管道尺寸訂制(最短100mm，最長3000mm)

※管道開孔尺寸圖(單位:mm)

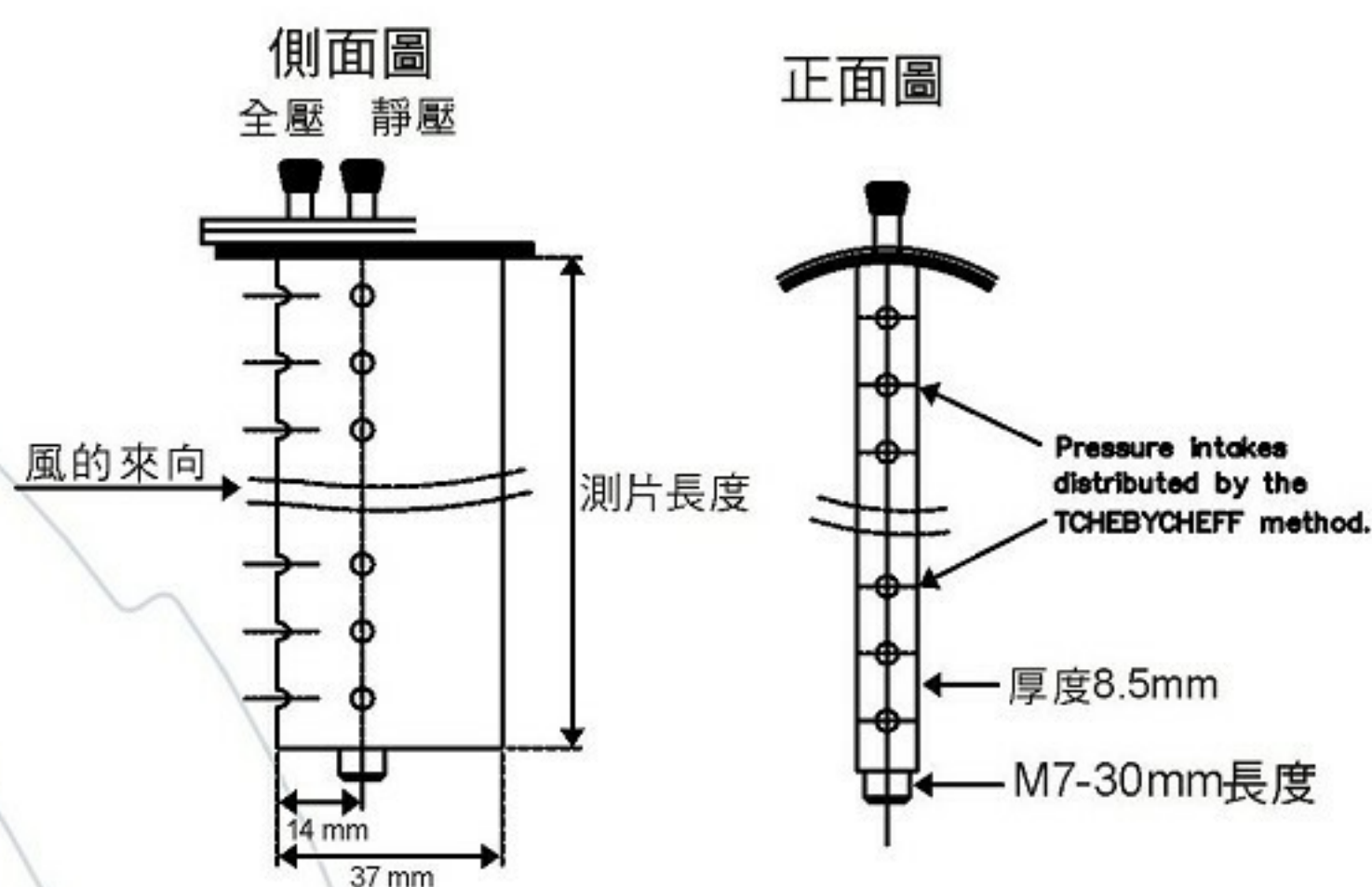
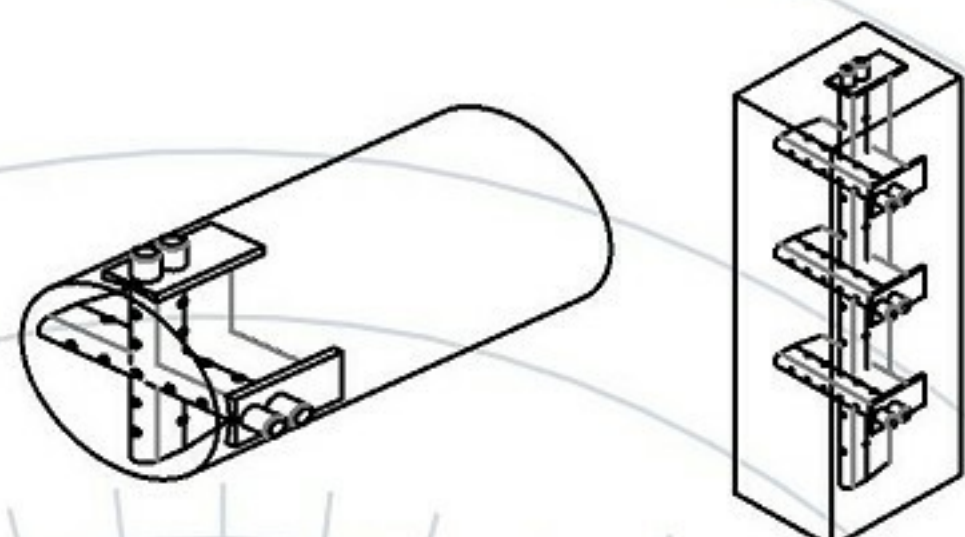


※產品操作圖:



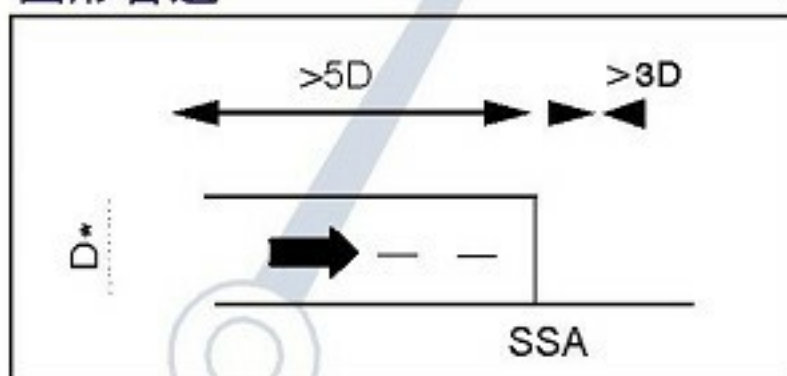
※功能尺寸圖:

※產品安裝圖:



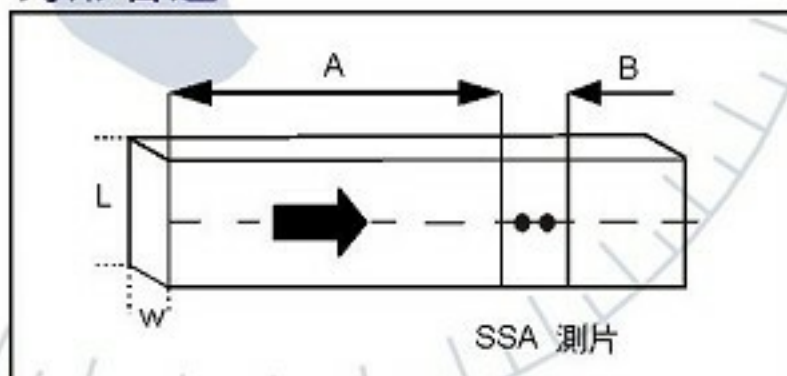
※安裝建議:

圓形管道



安裝SSA測片于圓形管道中
SSA測片之前，直管長度建議最少： $5 \times D$
SSA測片之後，直管長度建議最少： $3 \times D$
D 為管道直徑

方形管道



L為管道長度，W為管道寬度，單位為M

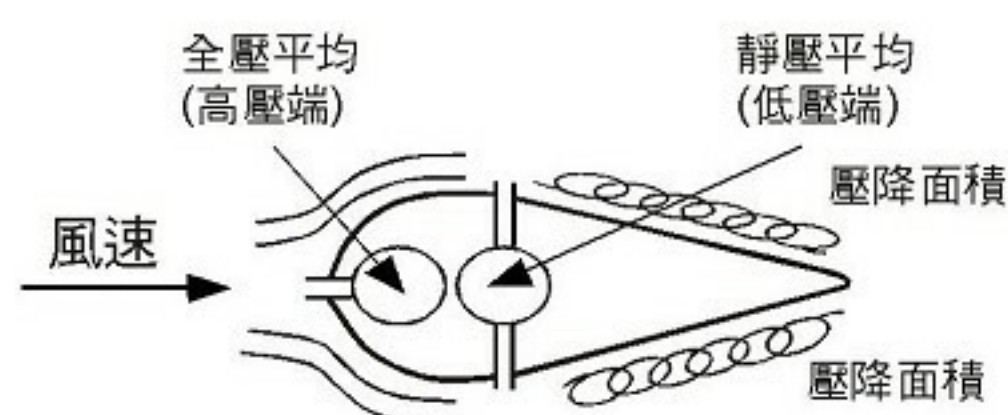
安裝SSA測片于方形管道中
SSA測片之前，直管長度建議最少：
 $A > 5 \times \sqrt{\frac{4 \times L \times W}{\pi}}$
SSA測片之後，直管長度建議最少：
 $B > 3 \times \sqrt{\frac{4 \times L \times W}{\pi}}$

※計算程式:

$$\text{風速(m/s)} = K_L \times \sqrt{\text{全壓} - \text{靜壓}}$$

$$\text{風量(m}^3/\text{h)} = K_L \times \sqrt{\text{動壓}} \times S \times 3600$$

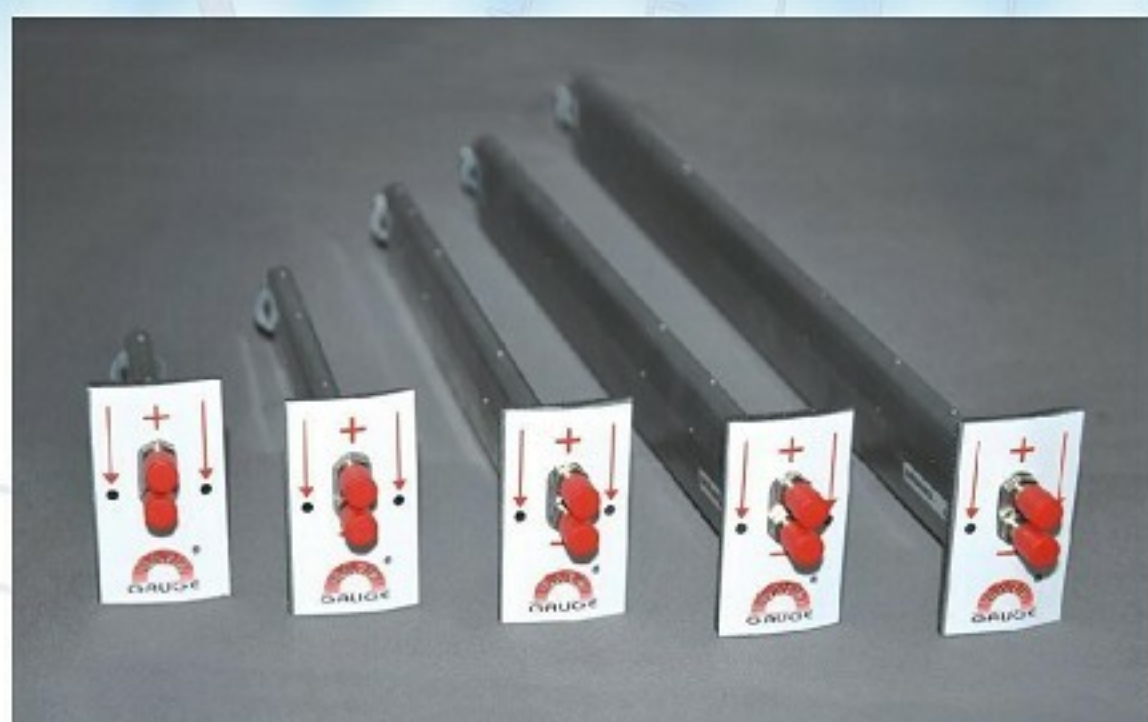
K_L : SSA側片系數
 S : 管道截面積(m^2)





SSA AIR FLOW MEASURING BLADES

Quality Technology



When used with a HWA CHIH differential pressure device (pressure, transmitter, electronic micro manometer, liquid column manometer, differential pressure switch, ...), HWA CHIH SSA flow measuring blades are a simple and cost effective method of providing permanent air flow measurement in rectangular or circular ducts. SSA air flow measuring blades ensure accurate indication, control or recording air flow velocity and volume.

HWA CHIH has designed and manufactured the SSA measuring blades for use in all types of air flow systems.

SSA flow measuring blades, when correctly placed in an air flow, generate a differential pressure, the square root of which is proportional to the air flow.

Applications: air supply systems in laboratories, air conditioning systems, air flow test rigs, fume extraction and exhaust systems, vacuum cleaning systems.

- . Permit velocity measurements from 3 to 100m/s (9Pa to 10000Pa).
- . Airfoil section limiting differential heads (<3%) and turbulences.

✂ SPECIFICATION

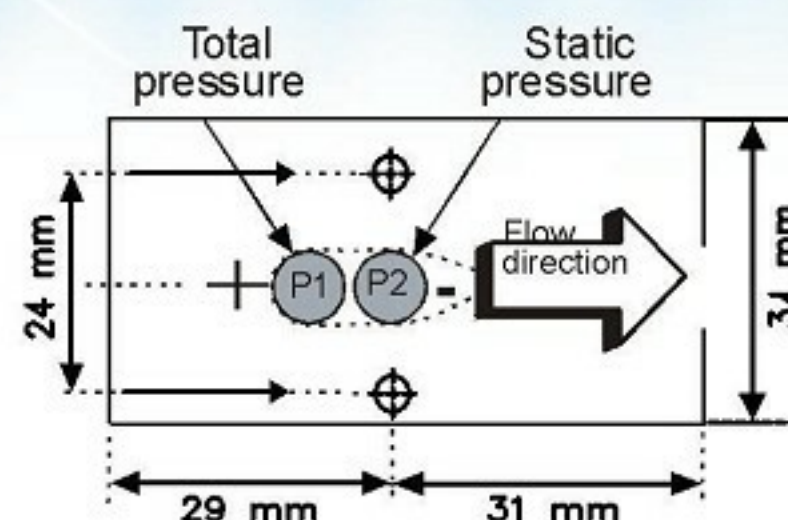
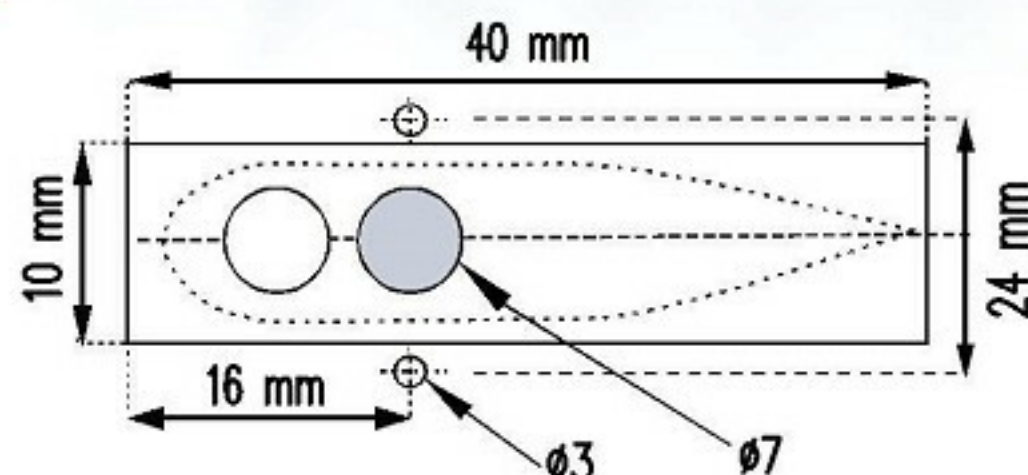
Materia	Aluminum press, stainless steel screws
K factor	0.8165
Temperature Limits Max	Limits Max: 210°C
Max Pressure	2bar
Accuracy	<0.3% (depend on the quantity of differential pressure gauges and blades) (Include repeatability)
Advice	Distribution of the measurement apertures on the airfoil permitting the medium air flow control (average of the differential pressures).

✂ Size available

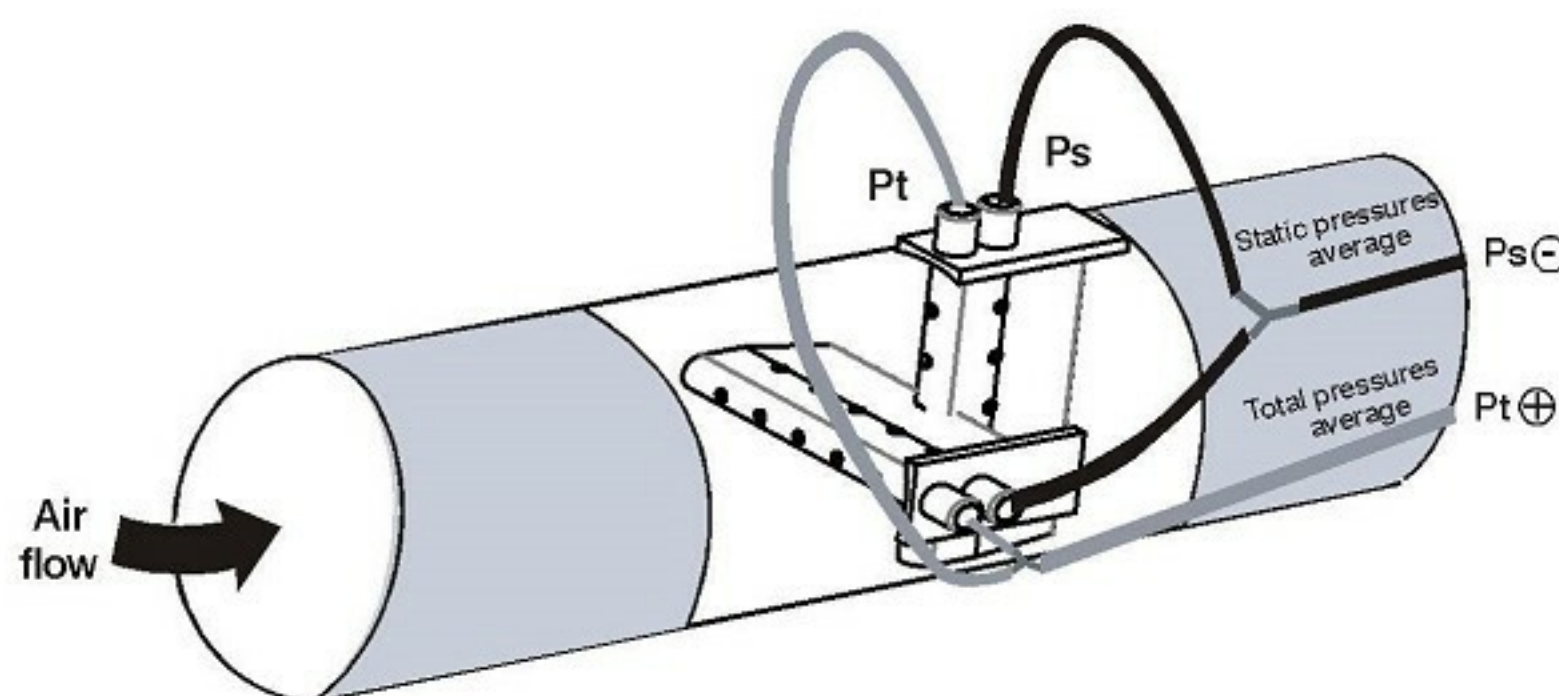
Ref	Length in mm	Ref	Length in mm
SSA-100	100mm	SSA-125	125mm
SSA-160	160mm	SSA-200	200mm
SSA-250	250mm	SSA-315	315mm
SSA-400	400mm	SSA-500	500mm
SSA-630	630mm	SSA-800	800mm
SSA-1000	1000mm	SSA-1500	1500mm
SSA-2000	2000mm	SSA-2500	2500mm
SSA-3000	3000mm		

Special dimension on demand (from 100 to 3000mm)

※ Fixing details

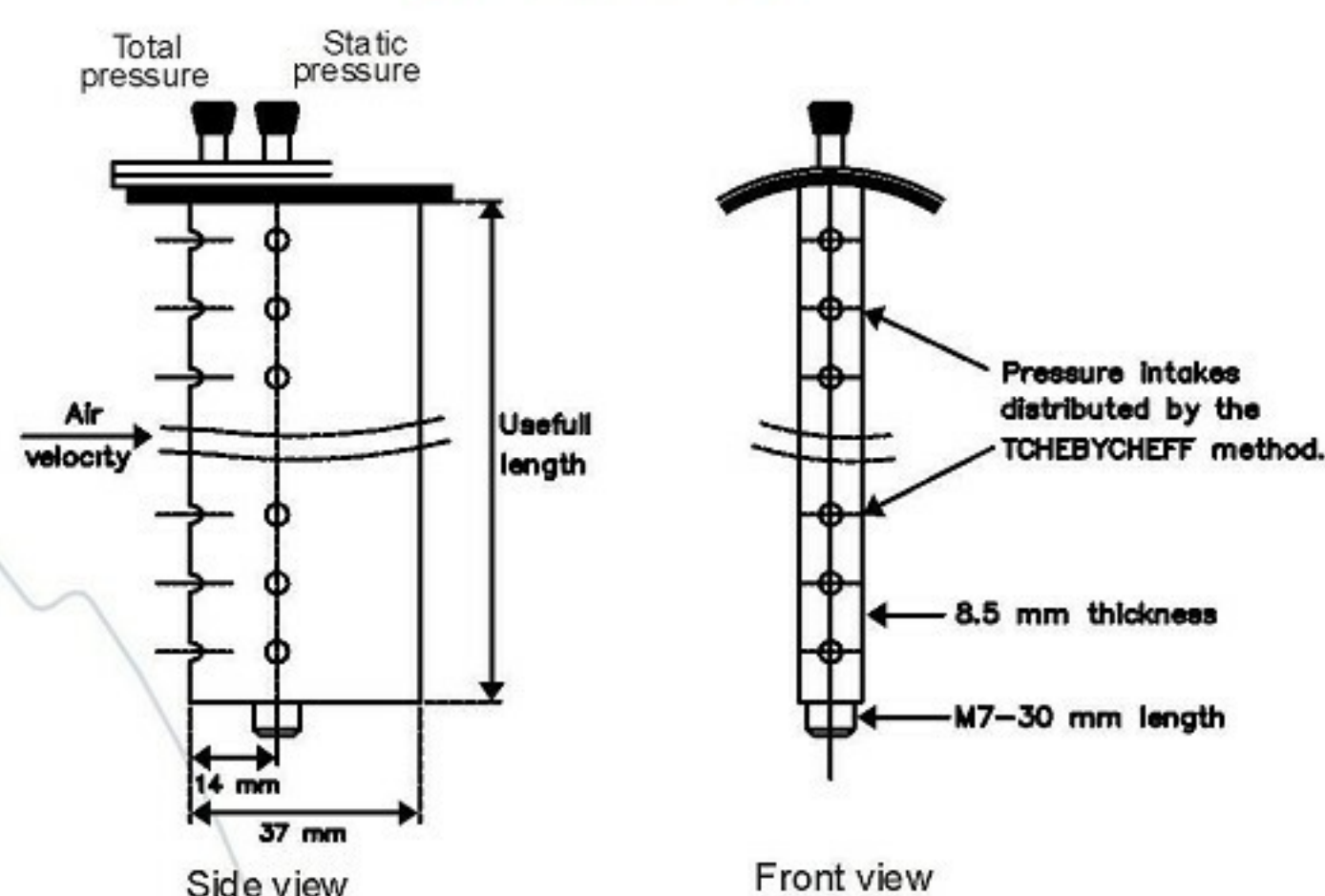
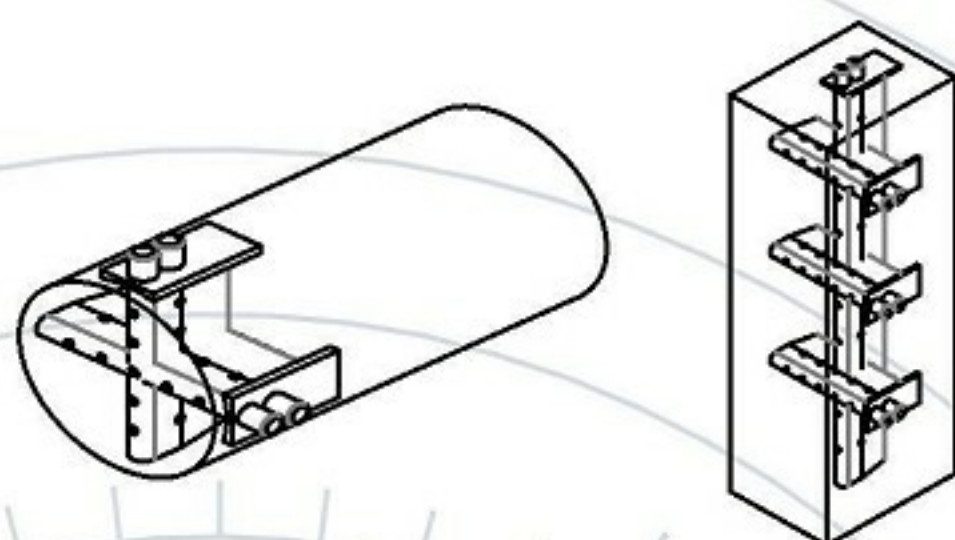


※ Operation



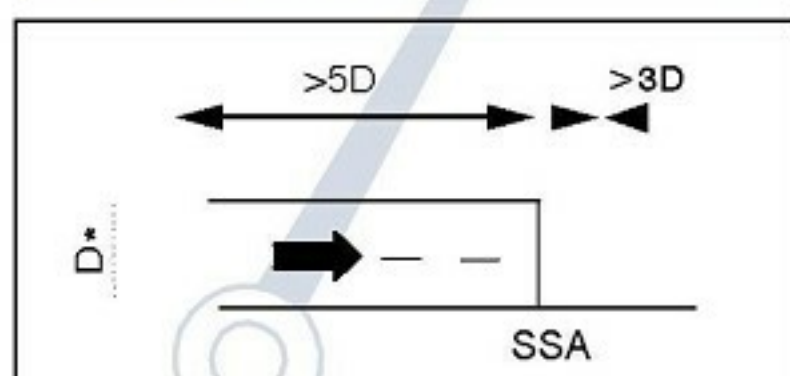
※ Features

※ Mounting examples



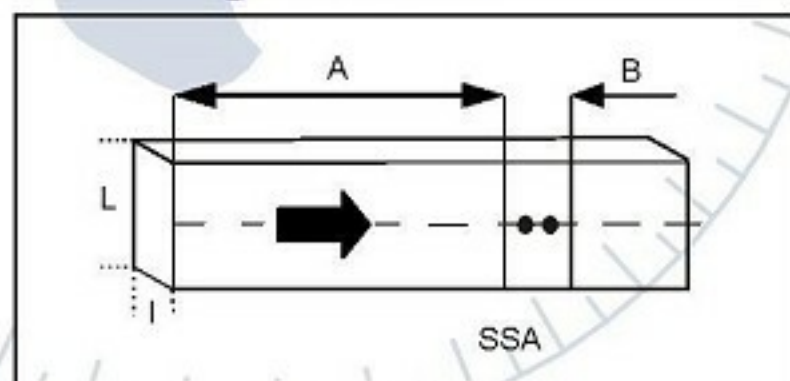
※ Installation advice

Circular duct



Mounting of a SSA measuring system in a horizontal duct
Before SSA, safety distance, 5 x D
After the SSA, safety distance: 3 X D
*D= duct diameter in m.

Rectangular duct



Mounting of a SSA measuring system in a horizontal duct.
Before SSA, safety distance:

$$A > 5 \times \sqrt{\frac{4 \times L \times I}{\pi}}$$

After SSA, safety distance:

$$B > 3 \times \sqrt{\frac{4 \times L \times I}{\pi}}$$

*with L and I in M (length and width of duct).

※ Calculation formula

$$\text{Velocity (m/s)}^* = K_L \times \sqrt{P_t - P_s}$$

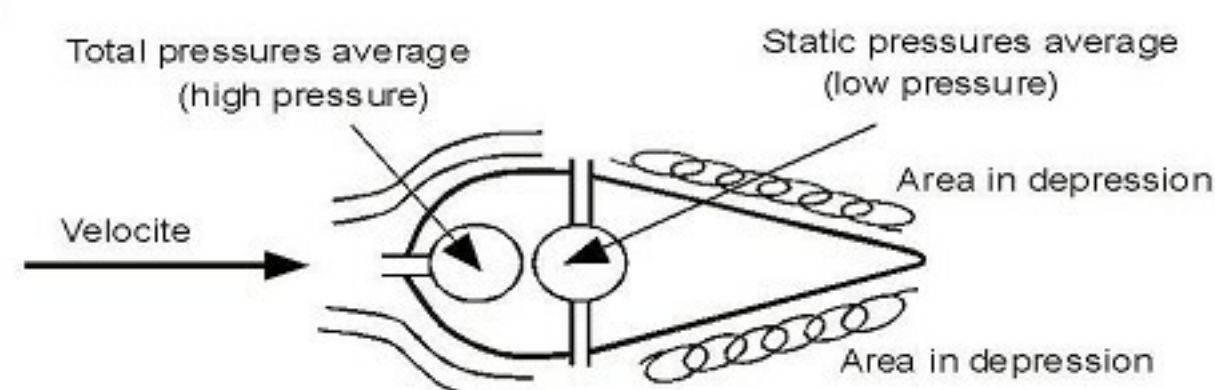
with P_t and P_s in Pa

$$\text{Air flow (m}^3\text{/h)}^* = K_L \times \sqrt{P_d \times S \times 3600}$$

with P_d in Pa and S in m

K_L : SSA blade factor

S : ductsection(m²)





Quality Technology

J-518 系列可調設定點氣體壓差開關

J-518 Adjustable Air Differential Pressure Switch



技術指標:

量程範圍：20~5000PA 等五種規格可選，詳見選型表
最大壓力限制：7500PA
工作(介質及環境)溫度：-20°C~+85°C
存儲溫度：-40~85°C
壓力連接：內徑6.0mm塑膠軟管，P1高壓端，P2低壓端
開關壽命：10⁶次以上
輸出：SPDT，標準型最大2A/ 250VAC，低壓型1A/30VDC
最大開關頻率：6次/分鐘
電氣連接：螺絲端子
可重複性：±2%
材質：主開關體-PC，封蓋-PC，膜片-硅膠，接點-銀點
重量：含安裝支架140克，不含安裝支架 90克
封裝：IP54
認證：CE

Specifications

Adjustable range: 5 ranges selectable, different engineering units available, see order information
Pressure limit: 75mbar
Working temperature limit: -20~ 85°C
Storage temperature limit: -40~85°C
Pressure connection: $\varnothing$ 6.0mm plastic pipe, P1 high and P2 low pressure
Service life: over 10⁶ switching cycles
Electric Contact: SPDT, max 2A/250VAC, max frequency 6 switching cycles/min
Electrical connection: 3 screw terminals
Repeatability: ±2%
Materials: housing PC, cover PC, diaphragm silicone and contact silver
Weight: 140g with bracket, 90g without bracket
Protection: IP54 with cover
Approvals:CE

安裝：垂直時壓力接口向下，此為開關校準位置。如必須水平安裝時，實際設定點比刻度點加20PA（封蓋向上）或減約10PA（封蓋向下）

附件：全部開關配置標準壓力連接組件一套，包括透明塑膠軟管2m，塑膠連接件2個及自攻螺絲4枚。

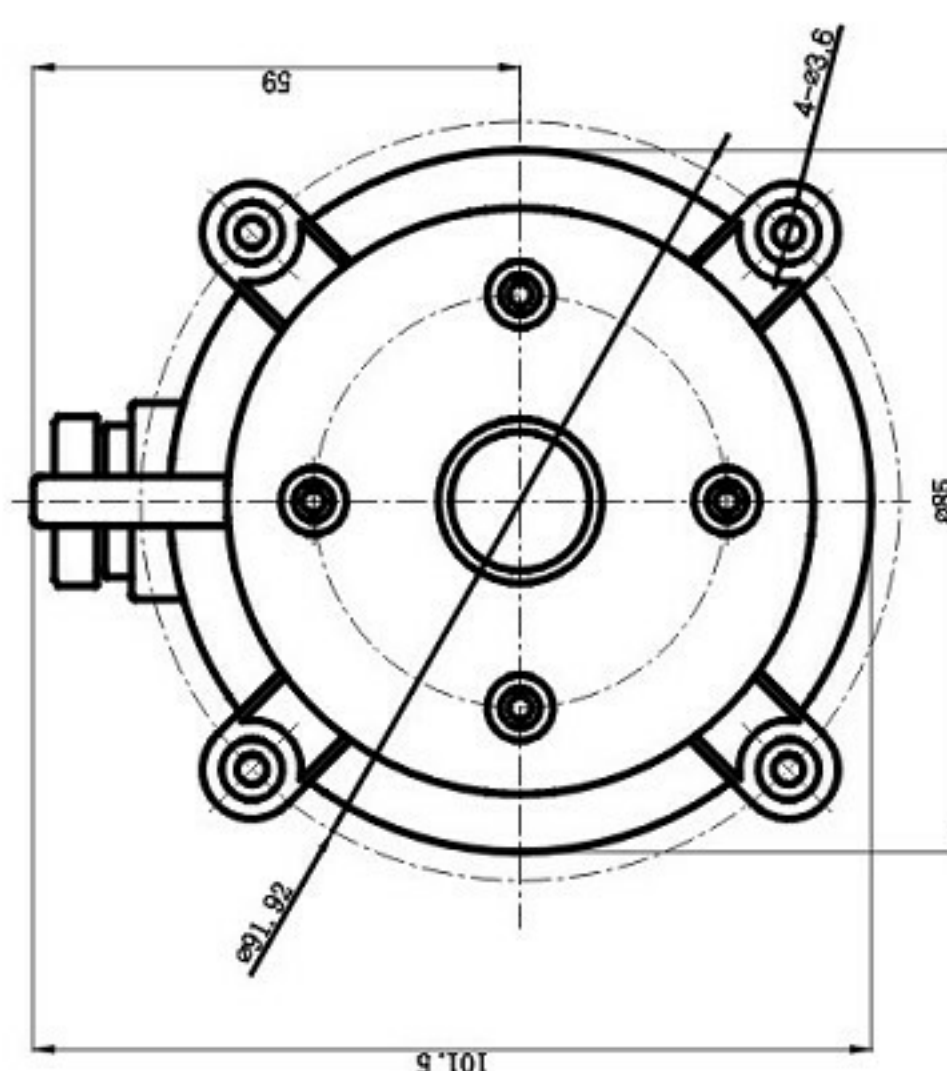
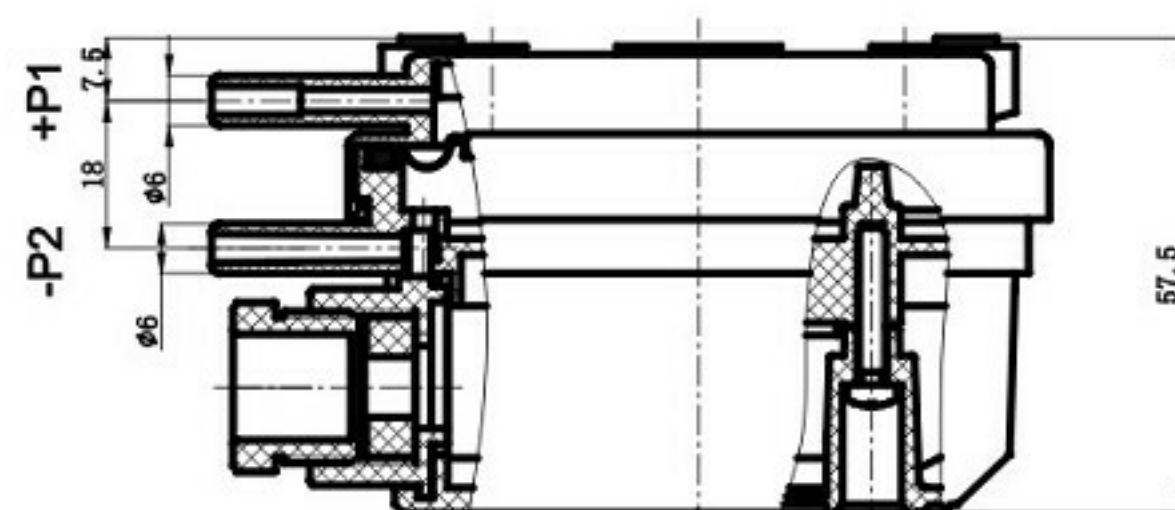
Installation: vertical, pressure ports P1 and P2 downward. This is the factory-calibrated position. If horizontally installation needed, the switching value should plus about 20PA (cover upward) and minus about 10PA (cover downward). See operation manual.

Accessory: the pressure connection set includes plastic pipe 2m, 2 pressure connection parts and 4 screws.



型號：(TYPE)：M8B-106

安裝配件：



型 號 TYPE	可調壓差範圍 Adjustable range
J-518-300PA	20-300PA
J-518-500PA	30-500PA
J-518-1000PA	100-1000PA
J-518-2500PA	500-2500PA
J-518-5000PA	1000-5000PA

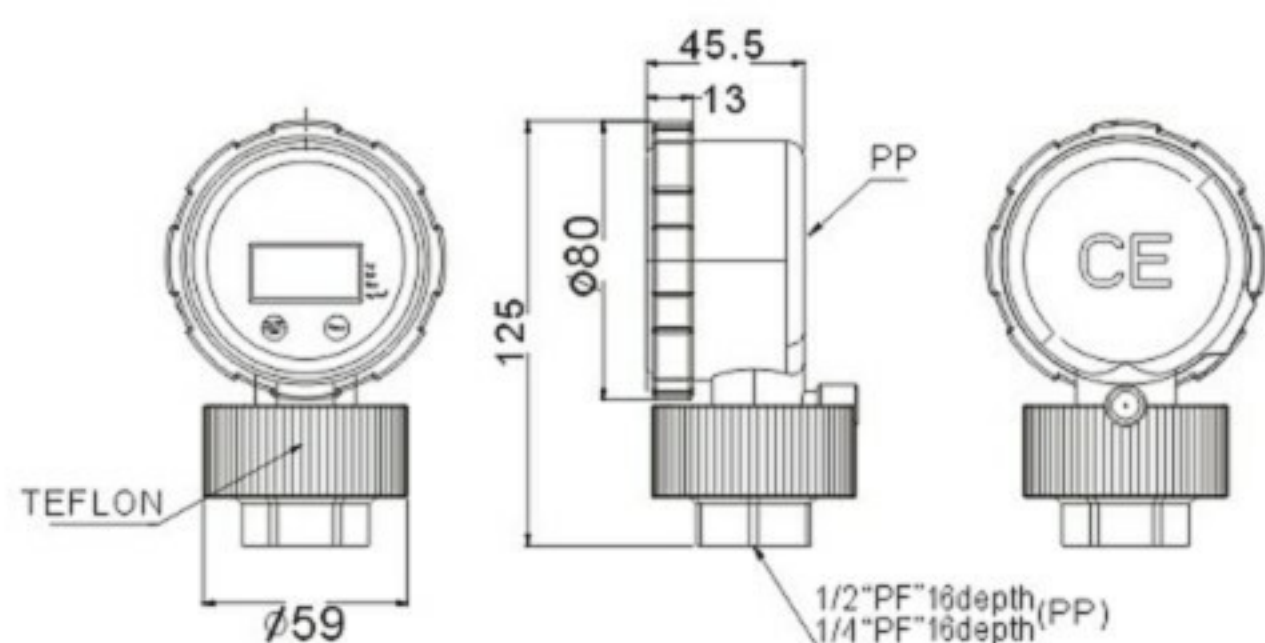


LCD / PP 隔膜壓力計

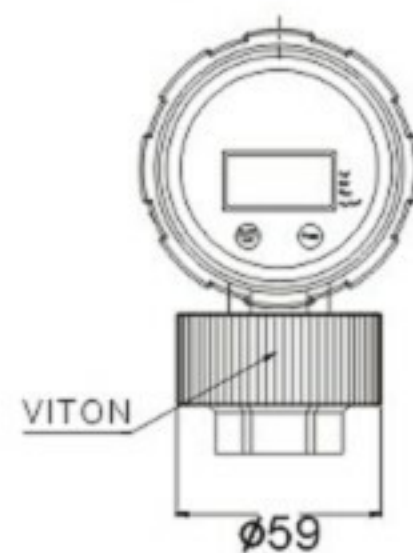
LCD PP DIAPHRAGM PRESSURE GAUGE

Quality Technology

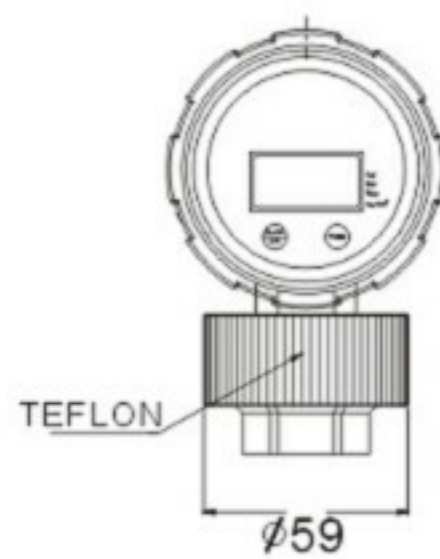
- DIAMETER : 2.5"
面 徑 : 63(mm)
- PRESSURE RANGE : -1+10 , -1+20 , 0~5 , 0~10 , 0~15 , 0~20 Kg/cm² (bar.Mpa.Psi)
壓力範圍 : -1+10 , -1+20 , 0~5 , 0~10 , 0~15 , 0~20 Kg/cm² (bar.Mpa.Psi)
- RESOLUTION LIMITING : 0.1PSI , 0.01BAR , 0.001MPA , 0.01Kg/cm²
解析度 : 0.1PSI , 0.01BAR , 0.001MPA , 0.01Kg/cm²
- POWER : Battery CR123A(3.0V)
電源電壓 : Battery CR123A(3.0V)
- LOW CONSUMPTION : Top electric flow less than 750uA ,
average electric flow less than 50uA .
(Operation under no back light on and
no button be pressed)
消耗電流 : 峰值電流小於750uA , 平均電流小於 50uA ,
(無背光下及無按鍵操作時)
- BATTERY LIFE : Continue on for two years
(Operation under 5 times back light on)
電池壽命 : 連續開機 2 年 (限每天使用背光 5 次以下)
- CASING & BEZEL : ANTI-SHOCK 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-V/25



SS-C/25



SS-E/25



LCD 隔膜壓力計

LCD DIAPHRAGM PRESSURE GAUGE

品質 | 技術 | 服務 | 創新

- DIAMETER : 2.5"
面 徑 : 63(mm)
- PRESSURE RANGE : -1+10 , -1+20 , 0~5 , 0~10 , 0~15 , 0~20 Kg/cm² (bar.Mpa.Psi)
壓力範圍 : -1+10 , -1+20 , 0~5 , 0~10 , 0~15 , 0~20 Kg/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 : Battery CR123A(3.0V)
電源電壓 : Battery CR123A(3.0V)
- LOW CONSUMPTION : Top electric flow less than 750uA ,
average electric flow less than 50uA.
(Operation under no back light on and
no button be pressed)
消耗電流 : 峰值電流小於750uA , 平均電流小於 50uA ,
(無背光下及無按鍵操作時)
- BATTERY LIFE : Continue on for two years
(Operation under 5 times back light on)
電池壽命 : 連續開機 2 年 (限每天使用背光 5 次以下)
- CASING & BEZEL : SUS 304
殼 、 框 : 不銹鋼 304
- 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



LCD 隔膜壓力計

LCD DIAPHRAGM PRESSURE GAUGE

Quality Technology

THREADED CONNECTION - 牙口式

The type is divided into female and male connector.

The male connector also got model 90 and model 70.

Their spec are from 1/4" to 1", the material they used are SUS316 and P.P, TEFLON, PVC.

牙口式隔膜可分為內牙式及外牙式，一般均為外牙式其外型有90型及70型兩種。

牙口規格有1/4"~1"均可訂作，材質有SUS 304# 316# PP，鐵氟龍，PVC。



LCD 001 牙口式可拆型
connection style
(available to open)



LCD 002 牙口式密閉型
connection style
(sealed)



LCD 003 內牙型
inner mount



Pressurized Capsule : TEFLON , SUS 304 、 316L , TANTALUM , TITANIUM , VITON .

受壓膜片分為：鐵氟龍，不銹鋼304、316L，鈦，鈦，氟素橡膠。

FLANGE TYPE - 法蘭口式

Flange type is divided into single flange, double flange and z type flange.

The material they used are SUS304 and SUS316 with spec 1/2" 10K To 2" 10K.

法蘭口式隔膜又分單法蘭口及雙法蘭口式，還有工字形法蘭口式。

規格有1/2" 10K~2" 10K，材質均為SUS 304# 316#。



LCD 004 單層法蘭型
Single Flange Style



LCD 005 工字形法蘭式
Dual Storey
Flanges Style



SANITARY TYPE - 衛生型

The type is divided into clamp, nut and connector.

Their spec are 1" to 4" and are used for the food, chemical and pharmacy industries.

衛生型隔膜可分為夾帶式、螺帽式、外牙式(夾帶可另外購買或選配)。

其規格有1"~4"，此型隔膜壓力計被廣泛應用於食品、藥品、化學工業之壓力量測。



LCD 006 夾帶式上半部
Upper Clamp Type



LCD 007 螺帽式整組
Nut Type



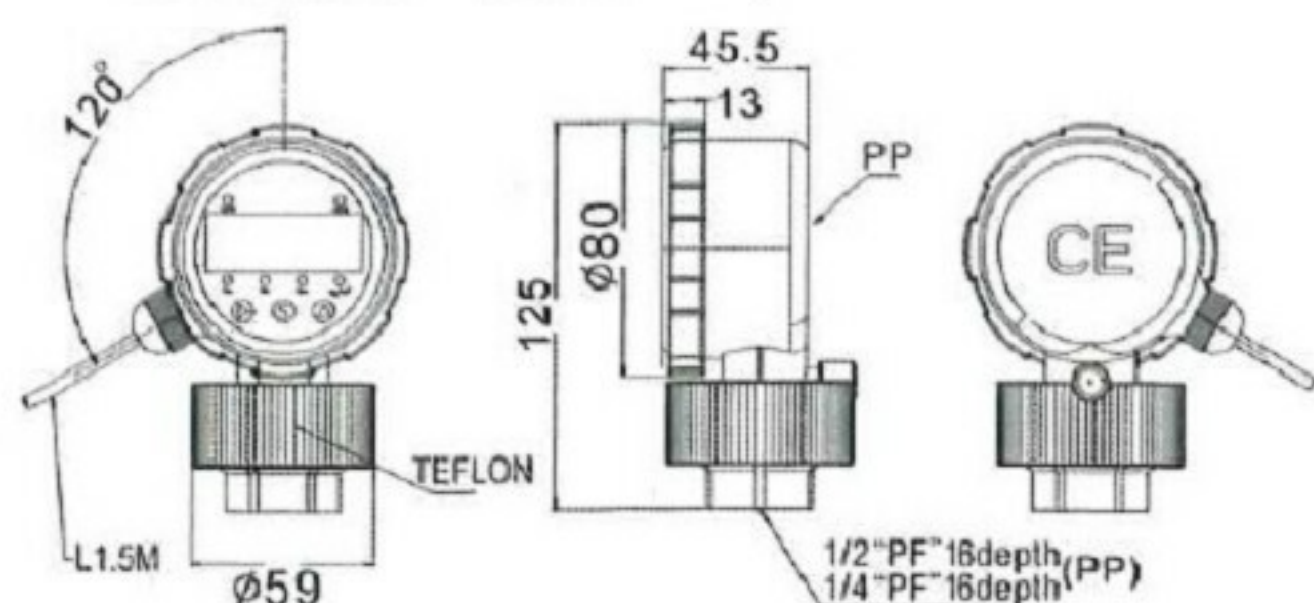
LED / PP 隔膜壓力計

LED PP DIAPHRAGM PRESSURE GAUGE

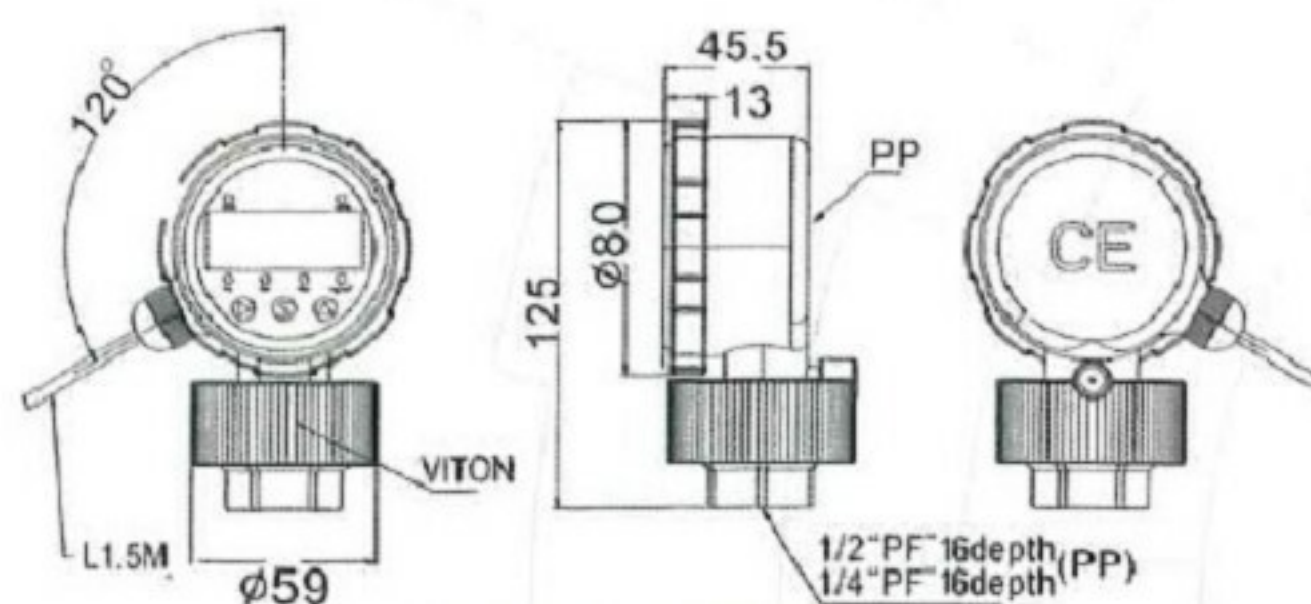
Quality Technology

- DIAMETER : 2.5"
面 徑 : 63(mm)
- PRESSURE RANGE : 0~1, 0~5, 0~10, 0~20 Kg/cm² (bar.Mpa.Psi)
壓力範圍 : 0~1, 0~5, 0~10, 0~20 Kg/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 : 1.0%F.S (OPTION OF RS485 SINGAL)
4~20mA輸出精度 : 1.0%F.S (RS485訊號另行選配)
- 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 : 1.0% F.S (@-10~110°C)
精 確 度 : 1.0% F.S (@-10~110°C)
- TEMPERATURE RANGE : -10°C to +110°C
使 用 溫 度 範 圍 : -10°C to +110°C
- WATERPROOF : IP65
防 水 等 級 : IP65
- WIRE SPECIFICATIONS : Wire 2M, 5M
線材規格 : 線長 2M, 5M

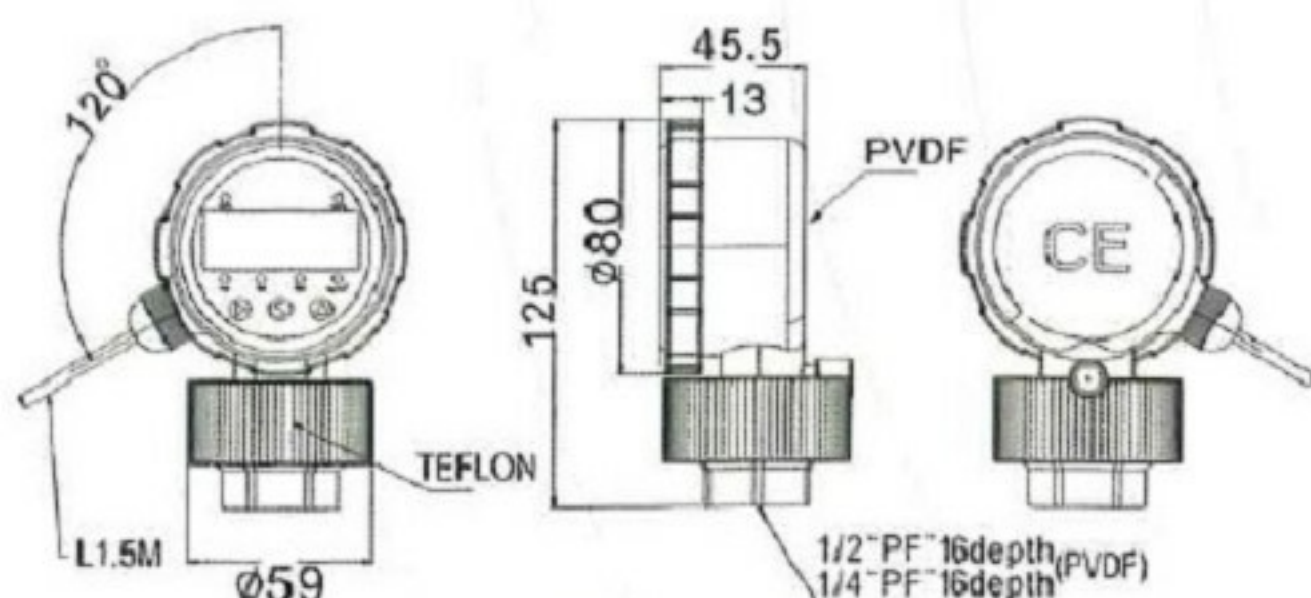
CE



SS-M19V/25

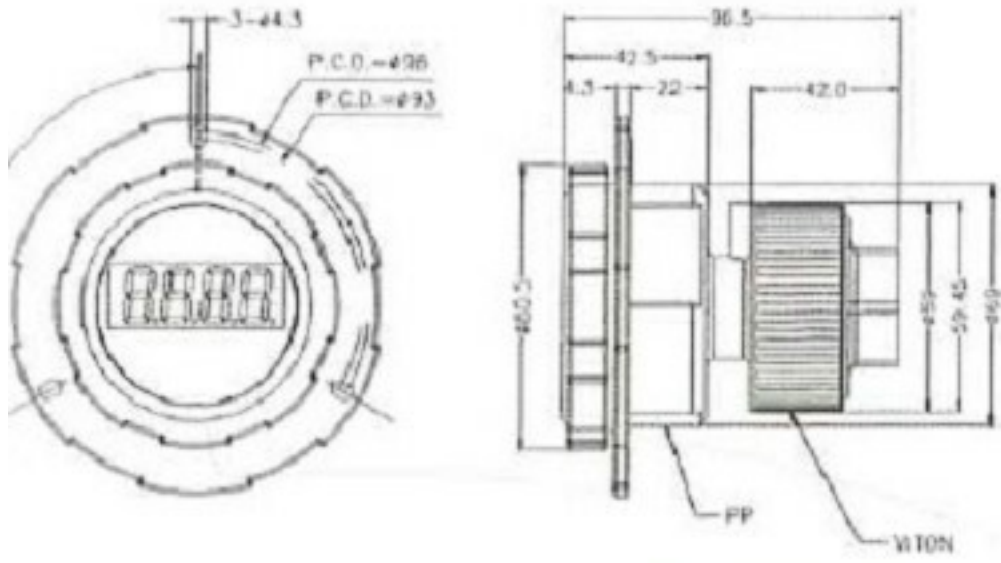


SS-CM19/25

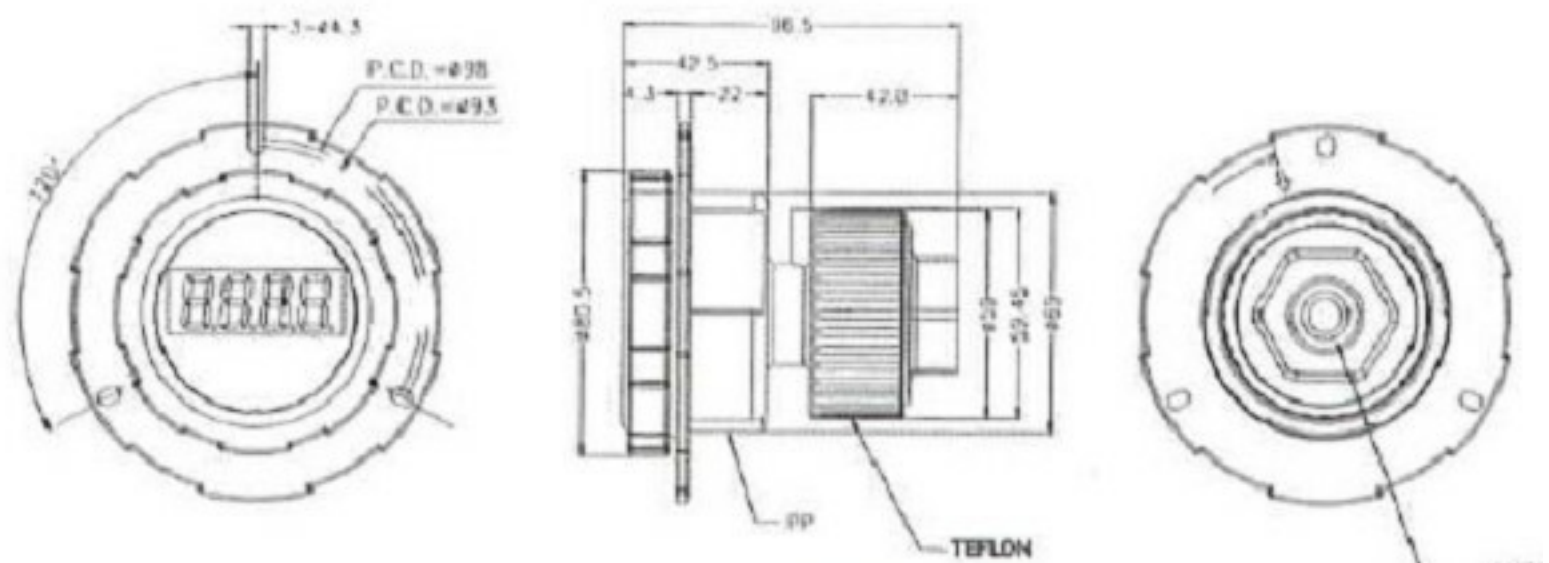


SS-EM19/25

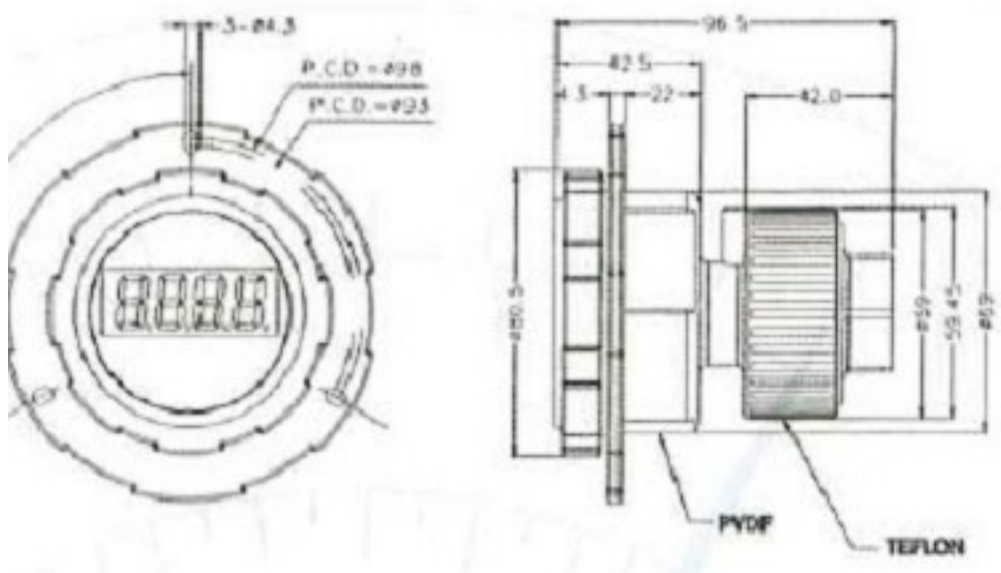
Service Innovation



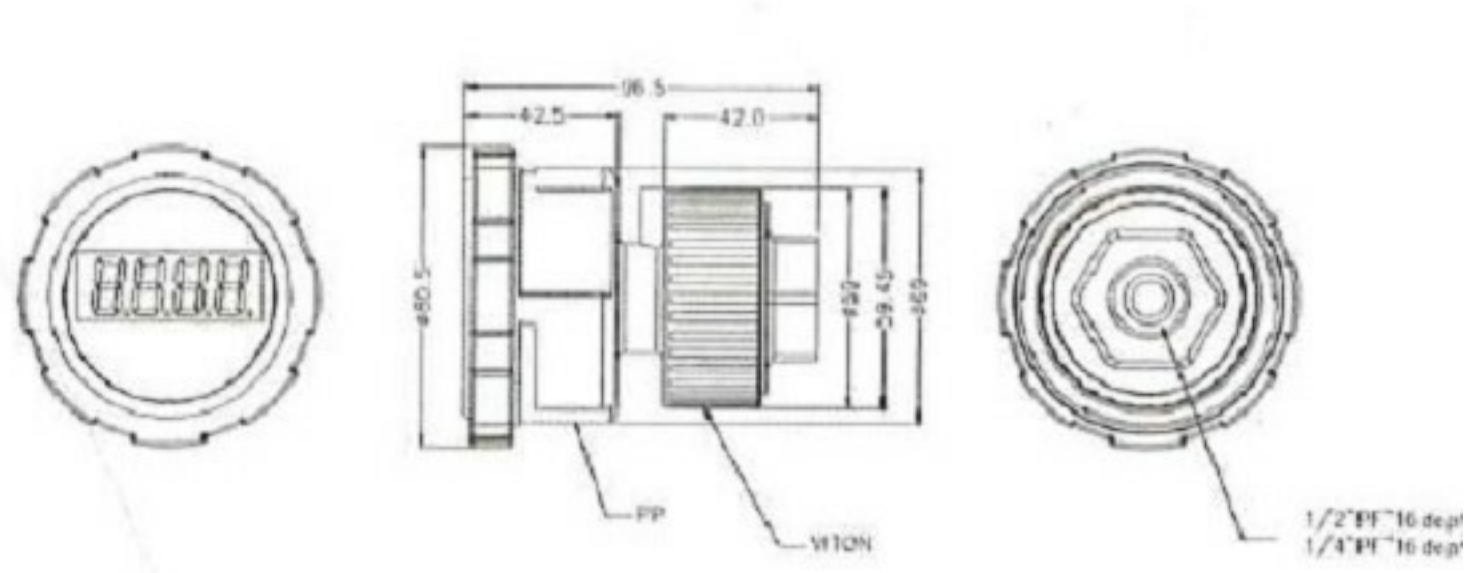
SF-CFM19/25



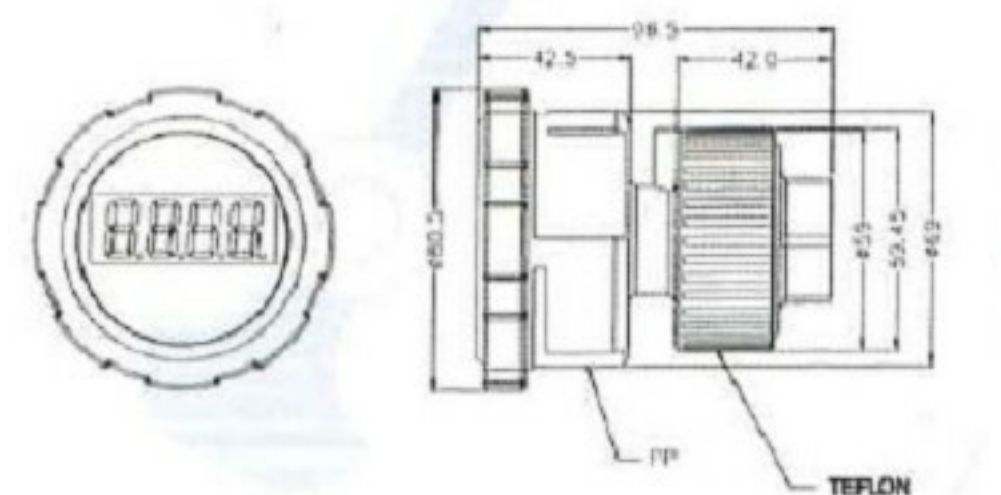
SF-FM19V/25



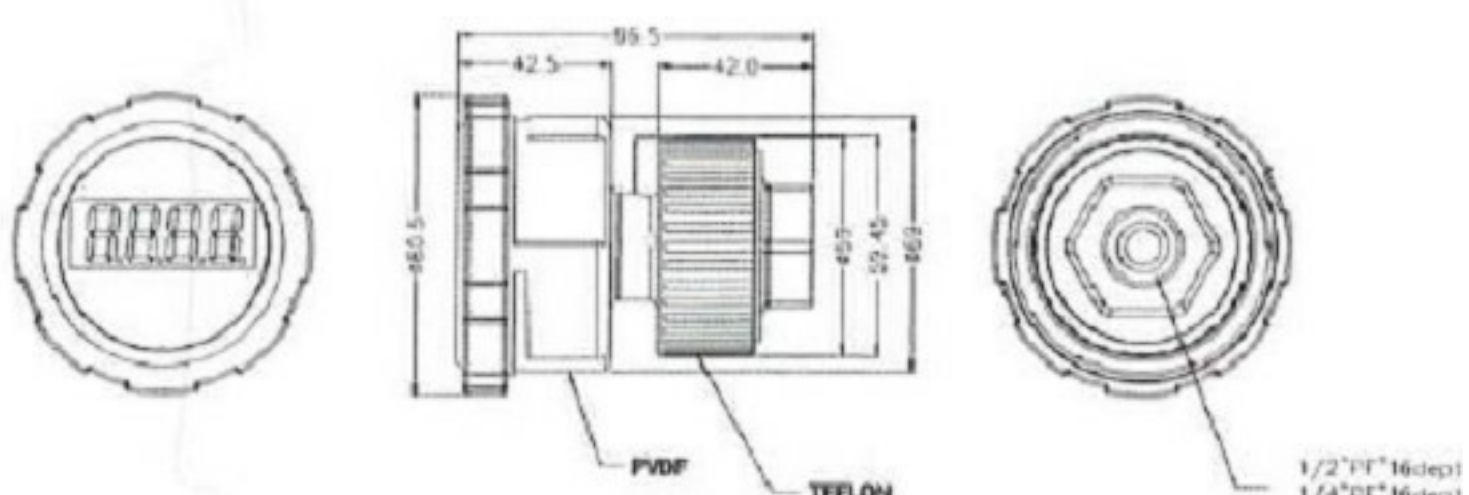
SF-EFM19/25



SF-CM19/25



SF-M19V/25



SF-EM19/25



LED 隔膜壓力計

LED DIAPHRAGM PRESSURE GAUGE

Quality Technology

- **DIAMETER : 2.5"**
面 徑 : 63(mm)
- **PRESSURE RANGE : -1+0 , -1+3 , -1+6 , -1+10 , 0~0.5 , 0~0.7 , 0~1 , 0~2 , 0~4 , 0~7 , 0~10 , 0~20**
Kg/cm² (bar.Mpa.Psi)
壓力範圍 : -1+0 , -1+3 , -1+6 , -1+10 , 0~0.5 , 0~0.7 , 0~1 , 0~2 , 0~4 , 0~7 , 0~10 , 0~20
Kg/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 : 1.0%F.S**
4~20mA輸出精度 : 1.0%F.S
- **CASING & BEZEL : SUS 304**
殼 、 框 : 不銹鋼 304
- **ACCURACY : 1.0% F.S(@-10~60°C)**
精 確 度 : 1.0% 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
- **WIRE SPECIFICATIONS : Wire 2M , 5M**
線材規格 : 線長 2M , 5M

THREADED CONNECTION - 牙口式

The type is divided into female and male connector.

The male connector also got model 90 and model 70.

Their spec are from 1/4" to 1", the material they used are SUS316 and P.P, TEFLON, PVC.

牙口式隔膜可分為內牙式及外牙式，一般均為外牙式其外型有90型及70型兩種。

牙口規格有1/4"~1"均可訂作，材質有SUS 304# 316# PP，鐵氟龍，PVC。



LED 001 牙口式可拆型
connection style
(available to open)

LED 002 牙口式密閉型
connection style
(sealed)



LED 003 內牙型
inner mount

Pressurized Capsule : TEFLON , SUS 304 、 316L , TANTALUM , TITANIUM , VITON .

受壓膜片分為：鐵氟龍，不銹鋼 304 、 316L ，鈦，鈦，氟素橡膠。



LED 隔膜壓力計

LED DIAPHRAGM PRESSURE GAUGE

Quality Technology

FLANGE TYPE - 法蘭口式

Flange type is divided into single flange, double flange and z type flange.

The material they used are SUS304 and SUS316 with spec 1/2" 10K To 2" 10K.

法蘭口式隔膜又分單法蘭口及雙法蘭口式，還有工字形法蘭口式。

規格有1/2" 10K~2" 10K，材質均為SUS 304# 316#。



LED 004 單層法蘭型
Single Flange Style



LED 005 工字形法蘭式
Dual Storey
Flanges Style

SANITARY TYPE - 衛生型

The type is divided into clamp, nut and connector.

Their spec are 1" to 4" and are used for the food, chemical and pharmacy industries.

衛生型隔膜可分為夾帶式、螺帽式、外牙式(夾帶可另外購買或選配)。

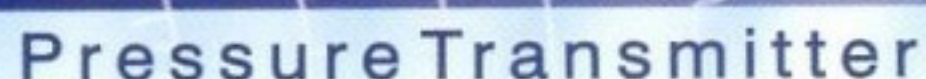
其規格有1"~4"，此型隔膜壓力計被廣泛應用於食品、藥品、化學工業之壓力量測。



LED 006 夾帶式上半部
Upper Clamp Type



LED 007 螺帽式整組
Nut Type



N	1/4 NPT
P	1/4 PT
O	其他

Application Area

- Refrigerating and Air-Conditioning system
- Various types of Pump
- Hydraulic System
- Industrial process control
- Automatic Spary
- Pneumatic system
- Air compressor system
- Agriculture Machine
- Gas storage
- Robot
- Fuel Cell

Characteristics

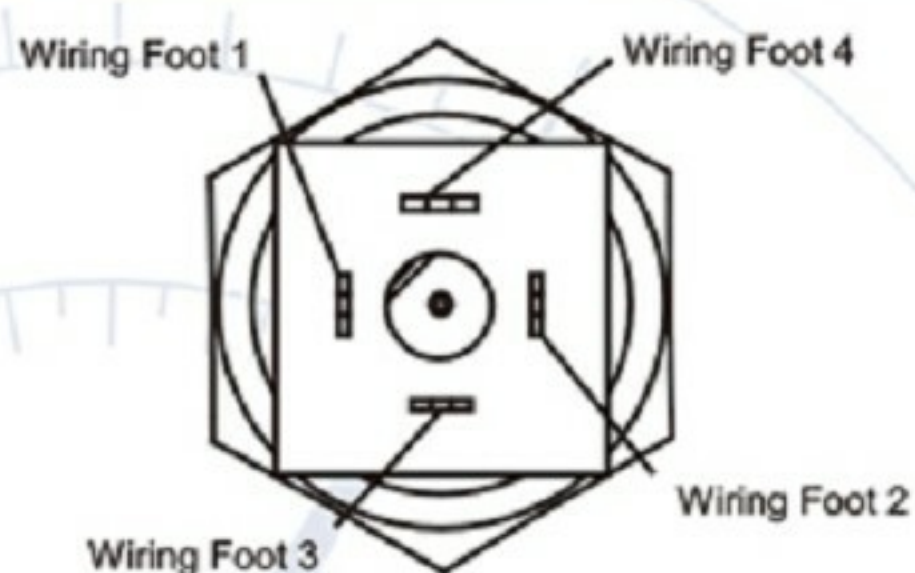
- High accuracy: $< \pm 0.5\%$ F.S.
- Laser welding fine seal , achieves with the measuring media isolates
- Temperature compensation function
- Easy Installation, Simple Structure, Light Volume
- High Overload ability, High Stability.



Specification

■ Pressure Range	-1bar~400bar(according to your oder spec.)	■ Pressure Connection	1/4"NPT, PT
■ Accuracy	$\leq \pm 0.5\%$ F.S.	■ Overload Pressure	3 X F.S.
■ Operating Temperature	-20~85℃ (-40~105℃ Optional)	■ Crack Pressure	Absolute: 10 X F.S. , Relative: 5 X F.S.
■ Electric Connection	DIN43650 Micro mini or line output type	■ Roading Resistance	<1000ohm
■ Output Singal	4~20 mA or 0~10V	■ Supply Voltage	8~30VDC (4~20 mA output / 2 wire)
■ Protection level	IP65		12~30VDC (0~10 V output / 3 wire)
■ Membrane Material	316L Stainless Steel	■ Reactive speed	$\leq 1\text{ms}$

Electric Wiring



Wiring Foot	0-10V/3 wire	4-20mA/2wire
1	Power(DC12-30v)	Power(DC8-30v)
2	Signal Output	Signal Output
3	Negative Power	N/A
4	E-case	E-case

Item No. Selection

SA — ☐ ☐ ☐ ☐ — ☐ — ☐ — ☐ — ☐									
Pressure Range				Pressure Type		Output Option		Electric Connection	
X010	-1 bar	0160	16 bar	A	Absolute Pressure	A	4~20mA	D	Mini Din 43650
0003	0.3 bar	0250	25 bar	G	Relative Pressure	V	0~10V	C	line out type
0006	0.6 bar	0400	40 bar			O	other	O	other
0010	1 bar	0600	60 bar						
0016	1.6 bar	1000	100 bar						
0025	2.5 bar	1600	160 bar						
0040	4 bar	2500	250 bar						
0060	6 bar	4000	400 bar						
0100	10 bar								