

# 2.5"數位式壓力傳送器 (DIGITAL PRESSURE TRANSMITTER 2.5")

MODEL  
SPD2



## ■特點(FEATURES)

- 精確度0.25%滿刻度 (Accuracy 0.25% F.S.)
- 感測頭使用陶瓷壓阻式壓力元件配合不鏽鋼(SUS316)材質 (Thick film strain gage on ceramic and stainless steel(SUS316))
- 壓力範圍-1至250 bar(Pressure range from -1 to 250 bar)
- 7種壓力單位可任意設定(Display pressure units bar, Kg/cm<sup>2</sup>,KPa,MPa,PSI,mmHg,inHg can be modified)
- 具有最高值與最低值記憶保持功能(Memory hold maximum value and minimum value function)
- 寬範圍工作電壓直流10至28伏特(Field-rangable supply voltage from 10 to 28 Vdc)
- 16 BIT類比輸出功能(16 bit DAC analog output function)
- 輸出負載能力強(RL(max.)<[(Vs-8V)/0.02A]Ω, up to 800 ohms at 24Vdc)
- 防護等級NEMA4/IP65(Protection class NEMA4/IP65,need enclosure don't directly used outdoors)

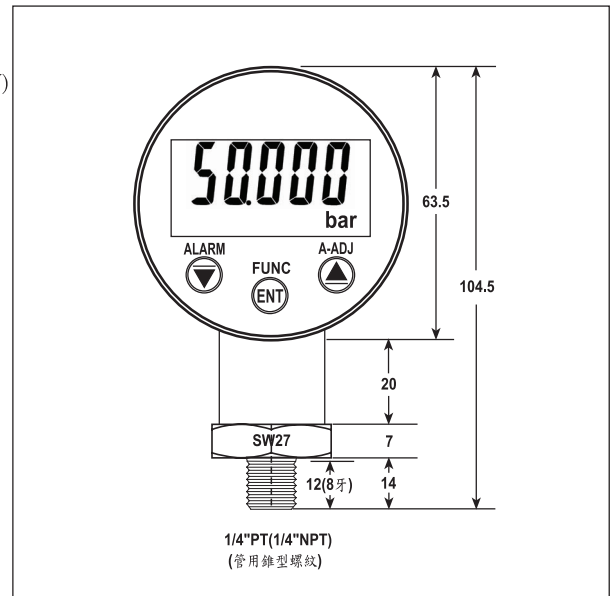
## 1.MODEL:SPD2-□ □ □ □ (選購型號)

NO	Pressure Range	NO	Pressure Range	NO	Output Range	NO	Output Range	NO	Pressure Connection	NO	Cable Length
1	-1~2 bar	4	0~250 bar	1	DC4~20mA(2-wire-system)	4	DC0~10V(3-wire-system)	1	1/4"PT	2	2M(standard)
2	-1~10 bar			2	DC4~20mA(3-wire-system)	5	Customer(3-wire-system)	2	1/4"NPT	9	Customer
3	0~50 bar			3	DC1~5V(3-wire-system)		•2~5 Power consumption<0.5VA	3	1/2"NPT		•3 cond.+shield,28AWG,PVC

## 2.SPICIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.25% F.S.
- Supply voltage (電源輸入) : DC10 to 28V(Output=DC4~20mA(3-wire)/1~5V)  
DC14 to 28V(Output=DC4~20mA(2-wire)/DC0~10V)
- Indication cycle (顯示時間週期) : 0.1s~9.9s can be modified
- Readout (measuring) range (顯示值(量測)範圍) : -19999~99999 digit
- Zero (offset) range (零點調整範圍) : 0~±999 digit adjustable
- Span range (最大值調整範圍) : 0~±999 digit adjustable
- Maximum permissible over pressure (最大允許過載壓力) : Maximum 2 x rated (<60Bar)  
Maximum 1.5 x rated (>60Bar)
- Burst pressure (破壞壓力) : 3 x rated (<60Bar)  
1.8 x rated (>60Bar)
- Analog output resolution (類比輸出解析度) : 16 bit DAC
- Response time (輸出反應速度) : 50ms (0~90%)
- Output drive capability (輸出負載能力) : <[(Vs-12V)/0.02A]Ω (Current 2-wire)  
<[(Vs-8V)/0.02A]Ω (Current 3-wire)  
>1KΩ (Voltage 3-wire)
- Output ripple(p-p) (輸出漣波) : <0.1% F.S.
- Thermal span shift (熱感度溫度漂移) : ±0.05% F.S./10°C
- Thermal zero shift (熱零點溫度漂移) : ±0.05% F.S./10°C
- Zero point long term stability (零點長期穩定度)(23 ± 5°C) : ±0.1% F.S./year(<60 Bar)  
±0.15% F.S./year(>60 Bar)
- Display (顯示幕) : Bright red LEDs high 10.16mm (0.4")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E<sup>2</sup> PROM memory
- Diaphragm materials (壓力感應膜片材質) : Ceramic Al2O3-96%
- Pressure port materials (壓力接口材質) : Stainless steel 1.4401(SUS316)
- Seale(media wetted)materials (密封材質) : NBR <16Bar  
PVDF >16Bar
- Display housing materials (顯示器本體材質) : FR-PET(UL94-VO)
- Operating temperature range (工作溫度) : -10 to 60°C
- Storage & medium temperature range: (儲存與接液溫度) : -30 to 80°C
- CE EMC Certification (CE 認證) : EN 55022:1998/A1:2000 Class A  
EN 61000-3-2:2000  
EN 61000-3-3:1995/A1:2001  
EN 55024:1998/A1:2001

## 3.DIMENSION(unit:mm) (外型尺寸)



## 4.CONNECTION DIAGRAM (接線圖)

