

# 兩線式溫度傳送器

( HEAD-MOUNTED TWO-WIRE TEMPERATURE TRANSMITTER )

MODEL  
TW



RoHS

## ■特點(FEATURES)

- 精確度0.1%滿刻度(Pt-100),0.2%滿刻度 $\pm 0.5^{\circ}\text{C}$ 冷接點補償(TC) (Accuracy 0.1%F.S.(Pt-100),0.2%F.S. $\pm 0.5^{\circ}\text{C}$ (CJC)(TC))
- 溫度SENSOR輸入種類(Pt-100/I/K/T/E/R/S/B)可任意規劃 (Input type (Pt-100/I/K/T/E/R/S/B) can be modify)
- 輸出範圍(-1999至9999)/顯示單位( $^{\circ}\text{C}$ , $^{\circ}\text{F}$ )可任意規劃 Output range(-1999~9999)/Display unit( $^{\circ}\text{C}$ , $^{\circ}\text{F}$ ) can be modify)
- 感應器輸入斷線保護功能最大輸出電流小於 $\leq 21\text{mA}$   
(Burnout protection function, upscale the output current limit of approximately  $\leq 21\text{mA}$ )
- 寬範圍電源輸入範圍直流10至30伏特(Field-rangeable supply voltage from 10 to 30V)
- 輸出DC4~20mA負載能力強(Output DC4~20mA,  $R_L(\text{max.})=(V_{\text{supply}}-9\text{V})/20\text{mA}$ , up to 750 ohms at 24VDC)
- 低價位與高可靠度(Low cost and high stability)

## 1.MODEL:TW-□

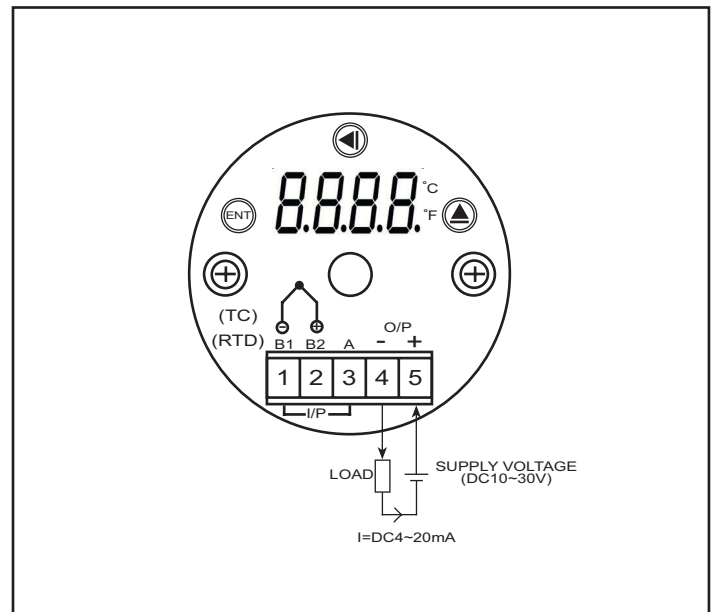
(選購型號)

NO	Input Range	NO	Input Range
P	Pt-100(-200~850 $^{\circ}\text{C}$ )	K	K(-200~1360 $^{\circ}\text{C}$ )
B	B(200~1800 $^{\circ}\text{C}$ )	R	R(0~1760 $^{\circ}\text{C}$ )
E	E(-185~990 $^{\circ}\text{C}$ )	S	S(0~1760 $^{\circ}\text{C}$ )
J	J(-200~760 $^{\circ}\text{C}$ )	T	T(-200~395 $^{\circ}\text{C}$ )

## 2.SPCIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.1% F.S.(Pt-100)  $23\pm 5^{\circ}\text{C}$ ; 0.2% F.S. $\pm 0.5^{\circ}\text{C}$  (CJC)(Thermocouple)
- Cold junction compensation accuracy (熱電偶冷接點補償精確度) :  $\pm 0.5^{\circ}\text{C}$  (0~70 $^{\circ}\text{C}$ )
- Output current (supply voltage) (輸出電流(供應電源)) : DC 4~20mA (DC 10 to 30V (<21mA))
- Sensor exciting current (感應器電流) : <1mA (RTD)
- Analog output span-according display range : -1999~+9999 digit adjustable (最高輸出對應顯示值範圍)
- Analog output zero-according display range : -1999~+9999 digit adjustable (最低輸出對應顯示值範圍)
- Response time (輸出反應時間) : <250ms (0~90%)
- Output load capability (輸出負載能力) :  $R_L(\text{max.})=(V_{\text{supply}}-9\text{V})/20\text{mA}$  (up to 750 ohms at 24VDC)
- Output ripple(p-p) (輸出漣波) : <0.1% F.S.
- Offset range (歸零微調範圍) : 0~ $\pm 99$  digit adjustable
- Span range (最高值微調範圍) : 0~ $\pm 199$  digit adjustable
- Temp. coefficient (溫度係數) : 50ppm/ $^{\circ}\text{C}$  (0~50 $^{\circ}\text{C}$ )
- Burnout protection (斷線保護) : Upscale the output current limit of approximately 21mA
- Reverse voltage protection (逆向電壓保護) : Included as standard
- Display (顯示幕) : 7-segment LCD character high 5.5mm(0.216")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E<sup>2</sup> PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/case)
- RFI protection (RFI保護) : 2W-150MHz at 2 meter causes less than 0.5% change in output
- Operating condition (使用環境條件) : -5~60 $^{\circ}\text{C}$  (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : -10~70 $^{\circ}\text{C}$  (20 to 90% RH non-condensed)
- Case materials (外殼材料) : PBT(UL94-VO)
- Construction (安裝方式) : Head-mounting(DIN type B head)
- 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.TERMINAL CONNECTION (接線圖)



## 4.DIMENSION (unit:mm) (外型尺寸)

