

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±0.5°C冷接點補償(TC) (Accuracy 0.1%F.S.(Pt-100),0.2%F.S.±0.5°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(°C,°F)可任意規劃 Output range(-1999~9999)/Display unit(°C,°F) can be modify)
- 感應器輸入斷線保護功能最大輸出電流小於≤21mA
(Burnout protection function, upscale the output current limit of approximately ≤21mA)
- 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(max.)=(V_{supply}~9V)/20mA, up to 750 ohms at 24VDC)
- 低價位與高可靠度(Low cost and high stability)

1.MODEL:TW-□

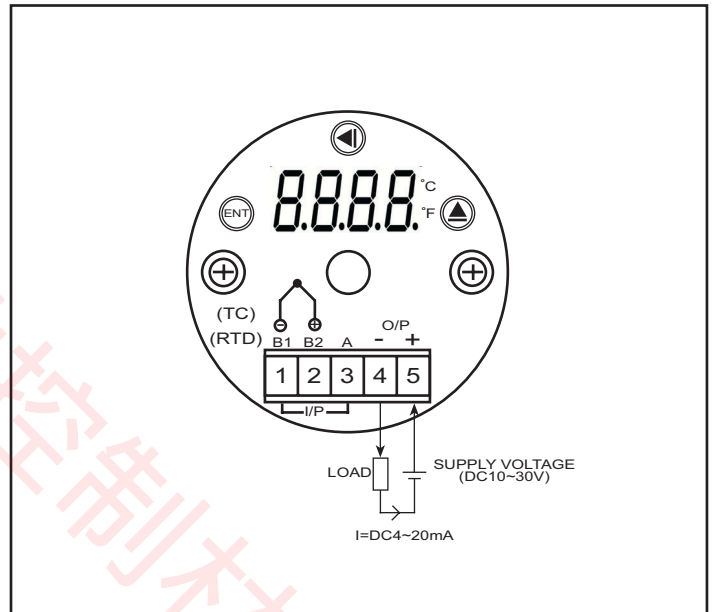
(選購型號)

NO	Input Range	NO	Input Range
P	Pt-100(-200~850°C)	K	K(-200~1360°C)
B	B(200~1800°C)	R	R(0~1760°C)
E	E(-185~990°C)	S	S(0~1760°C)
J	J(-200~760°C)	T	T(-200~395°C)

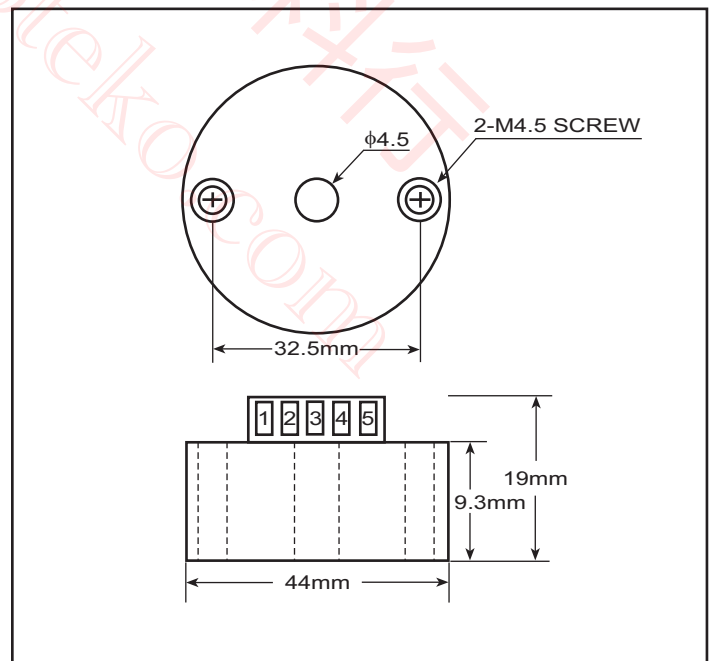
2.SPICIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.1% F.S.(Pt-100) / 0.2% F.S.±0.5°C (CJC)(Thermocouple)
- Cold junction compensation accuracy (熱電偶冷接點補償精確度) : < ±0.5°C (0~70°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 (最高輸出對應顯示值範圍) : -1999~+9999 digit adjustable
- Analog output zero-according display range (最低輸出對應顯示值範圍) : -1999~+9999 digit adjustable
- Response time (輸出反應時間) : <250ms (0~90%)
- Output load capability (輸出負載能力) : R_L(max.)=(V supply-9V)/20mA (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~±99 digit adjustable
- Span range (最高值微調範圍) : 0~±199 digit adjustable
- Temp. coefficient (溫度係數) : 50ppm/°C (0~50°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 charactor high 5.5mm(0.216")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E² 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°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : -10~70°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)



兩線式電位計傳送器

(HEAD-MOUNTED TWO-WIRE POTENTIOMETER TRANSMITTER)

MODEL
TWP



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1%F.S.)
- 寬輸入範圍100 ohm至50K ohm三線式(Wide input ranges from 100 ohm to 50K ohm(3-wire))
- 輸出範圍(-1999至9999)可任意規劃(Output range (-1999~9999) can be modify)
- 感應器輸斷線保護功能最大輸出電流小於21mA
(Burnout protection function, upscale the output current limit of approximately 21mA)
- 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, $R_L(\max.) = (V_{\text{supply}} - 9V) / 20\text{mA}$, up to 750 ohms at 24VDC)
- 低價位與高可靠度(Low cost and high stability)

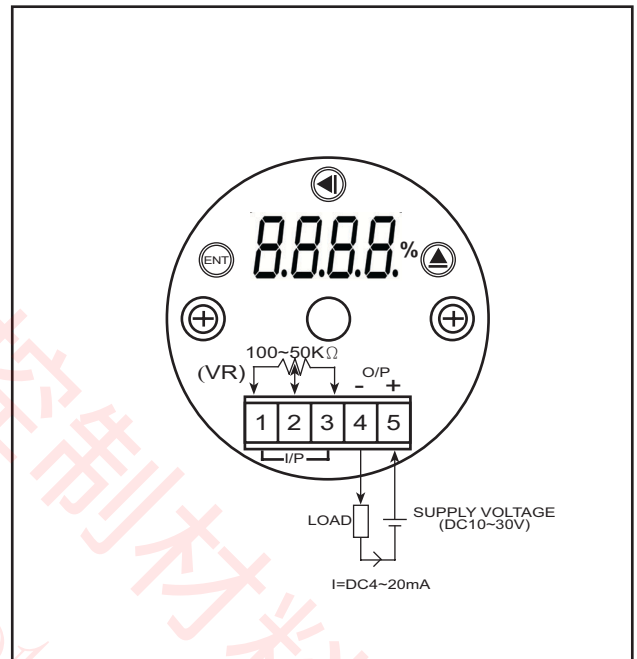
1.MODEL:TWP

(選購型號)

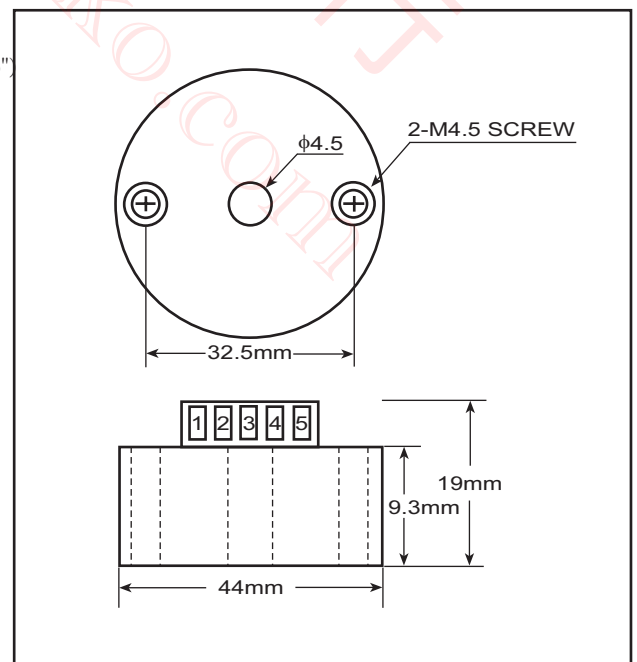
2.SPCIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.1% F.S. (23±5°C)
- Output current (supply voltage) (輸出電流(供應電源)) : DC 4~20mA (DC 10 to 30V (<21mA))
- Sensor input ranges (感應器輸入範圍) : 100 ohm~50K ohm(3-wire)
- Sensor Exciting voltage(current) (感應器電壓) : 120mVDC (<1.2mA)
- 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) : $R_L(\max.) = (V_{\text{supply}} - 9V) / 20\text{mA}$ (up to 750 ohms at 24VDC)
- Output ripple(p-p) (輸出漣波) : <0.05% F.S.
- Zero (offset) range (歸零調整範圍) : 0~±99 digit adjustable
- Span (scale) range (最大值調整範圍) : 0~±199 digit adjustable
- Temp. coefficient (溫度係數) : 50ppm/°C (0~50°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 E² 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°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : -10~70°C (20 to 90% RH non-condensed)
- Case materials (外殼材料) : PBT(UL94-V0)
- 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)



交流電流傳送器(超小型)

(AC CURRENT TRANSMITTER)(mini-size)

MODEL
TWA



■特點(FEATURES)

- 精確度0.25%滿刻度(Accuracy 0.25%F.S.)
- 寬範圍電源輸入直流10至30伏特(Field-rangeable supper voltage from 10 to 30V)
- 超小尺寸(51.5x22.2x19.3mm)(Dimension mini-size(51.5x22.2x19.3mm))
- 低價位與高可靠度(Low cost and high stability)
- CE認證(CE EMC certification)

RoHs

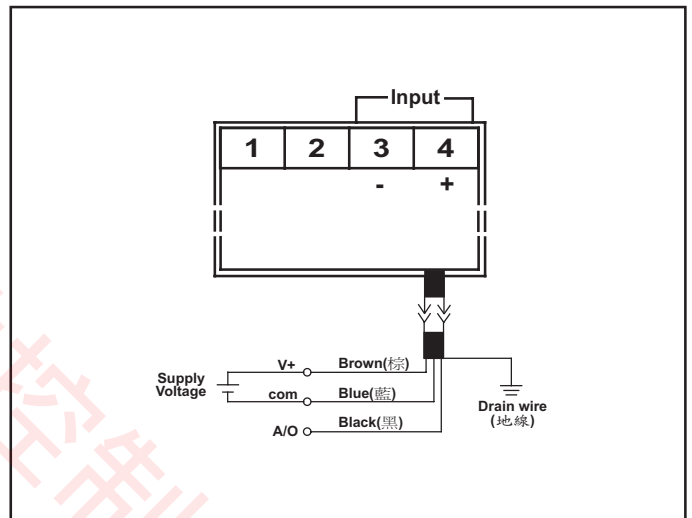
1.MODEL:TWA -
(選購型號)

NO	Input Range	NO	Output Range	NO	Output cable length
1	AC0~1A	C	DC1~5V	2	2M(standard)
5	AC0~5A	D	DC0~10V	9	Customer
	•50/60Hz •Non-Isolating	I	DC4~20mA		•3cond.+shield,#28AWG, PVC
		R	SPECIFIED		

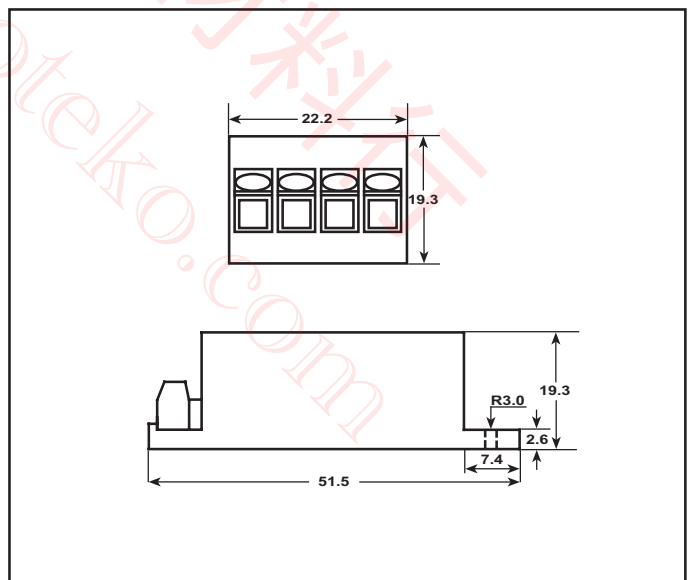
2.SPICIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.25% F.S.(23±5°C)
- Input burden (輸入負載) : <0.25VA
- Maximum input over (最大過載能力) : Related input: 3x rated continuous
10x rated 30 sec.,25x rated 3 sec.,50 rated 1 sec.
- Output current (supply voltage) (輸出電流(供應電源)) : DC 10 to 30V (Output DC1~5V/4~20mA)
DC 14 to 30V (Output DC0~10V)
- Output load capability (輸出負載能力) : >1Kohm(Voltage output)
<[(Vs-8V)/0.02A]ohm (Current output)
- Response time (輸出反應時間) : <250ms (0~90%)
- Output ripple(p-p) (輸出漣波) : <0.1% F.S.
- Zero (offset) range (歸零調整範圍) : 0~ ±20%F.S.
- Span (scale) range (最大值調整範圍) : 0~ ±20%F.S.
- Temp. coefficient (溫度係數) : 100ppm/°C (0~60°C)
- Isulation resistance (絕緣阻抗) : >100M ohm with 500Vdc
- 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) : 0~60°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- Input wire range (輸入配線規格) : #14~#26AWG (0.2~2.0mm²)
- Case materials (外殼材料) : PC+ABS
- 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)



電位計傳送器(超小型)

(POTENTIOMETER TRANSMITTER)(mini-size)

MODEL
TWK



RoHs

■特點(FEATURES)

- 精確度±0.025%滿刻度(Accuracy±0.025%F.S.)
- 寬輸入範圍300 ohm至50Kohm(Wide input range from 200 ohm to 50Kohm)
- 寬範圍電源輸入直流10至30伏特(Field-rangeable supper voltage from 10 to 30V)
- 超小尺寸(51.5x22.2x19.3mm)(Dimension mini-size(51.5x22.2x19.3mm))
- 低價位與高可靠度(Low cost and high stability)
- CE認證(CE EMC certification)

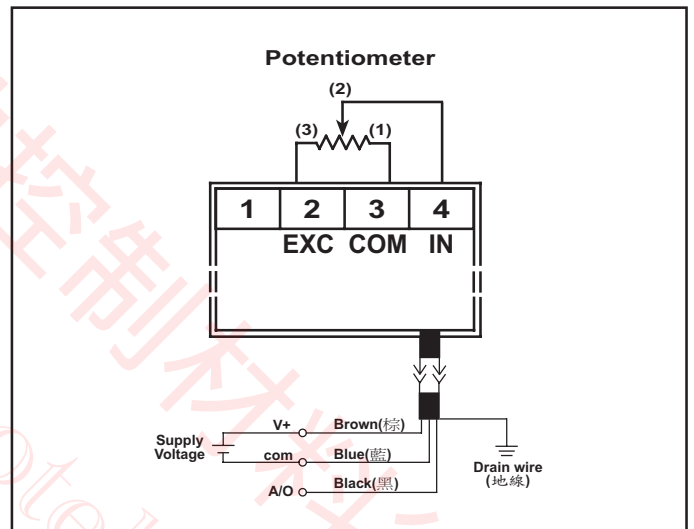
1.MODEL:TWK-
(選購型號)

NO	Input Range	NO	Input Range	NO	Output Range	NO	Output cable length
1	5~95%	3	0~100%	C	DC1~5V	2	2M(standard)
2	10~90%	9	SPECIFIED	D	DC0~10V	9	Customer
•Resistance range300 ohm~50Kohm				T	DC4~20mA	•3cond.+shield,#28AWG, PVC	
				R	SPECIFIED		

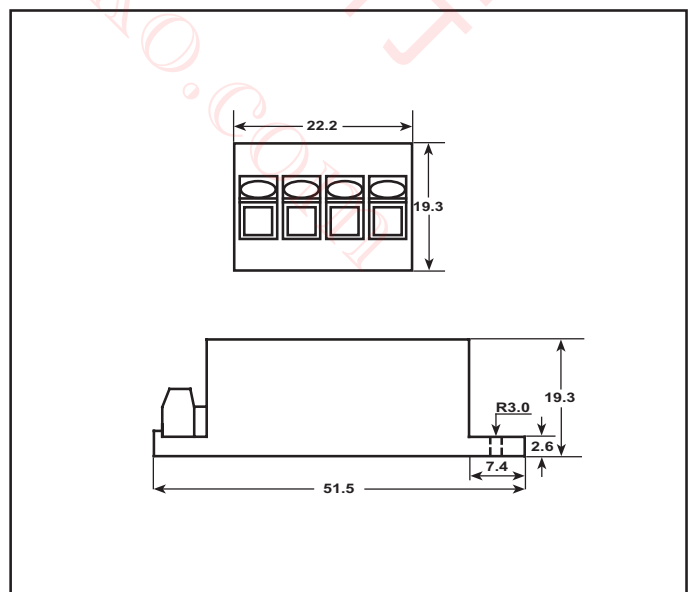
2.SPICIFICATION (主要規格)

- Measuring accuracy (精確度) : ±0.025% F.S.(23±5°C)
- Sensor power supply (感應器電源) : DC2.5V(<12.5mA)
- Output current (supply voltage) (輸出電流(供應電源)) : DC10 to 30V (Output DC4~20mA/1~5V)
DC14 to 30V (Output DC0~10V)
- Output load capability (輸出負載能力) : >1Kohm (Voltage output)
<[(Vs-8V)/0.02A]ohm (Current output)
- Response time (輸出反應時間) : <50ms (0~90%)
- Output ripple(p-p) (輸出漣波) : <0.05% F.S.
- Zero (offset) range (歸零調整範圍) : 0~±20%F.S.
- Span (scale) range (最大值調整範圍) : 0~±20%F.S.
- Temp. coefficient (溫度係數) : 25ppm/°C (0~60°C)
- Isulation resistance (絕緣阻抗) : >100M ohm with 500Vdc
- 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) : 0~60°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- Input wire range (輸入配線規格) : #14~#26AWG (0.2~2.0mm²)
- Case materials (外殼材料) : PC+ABS
- 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)



荷重元件傳送器(超小型)

(LOAD-CELL TRANSMITTER)(mini-size)

MODEL
TWL



■特點(FEATURES)

- 精確度±0.025%滿刻度(Accuracy ±0.025%F.S.)
- 多種輸入與輸出反應速度選擇功能(Wide selection of input range/output response time)
- 寬範圍電源輸入直流14至30伏特(Field-rangeable supply voltage from 14 to 30V)
- 超小尺寸(51.5x22.2x19.3mm)(Dimension mini-size(51.5x22.2x19.3mm))
- 低價位與高可靠度(Low cost and high stability)
- CE認證(CE EMC certification)

RoHs

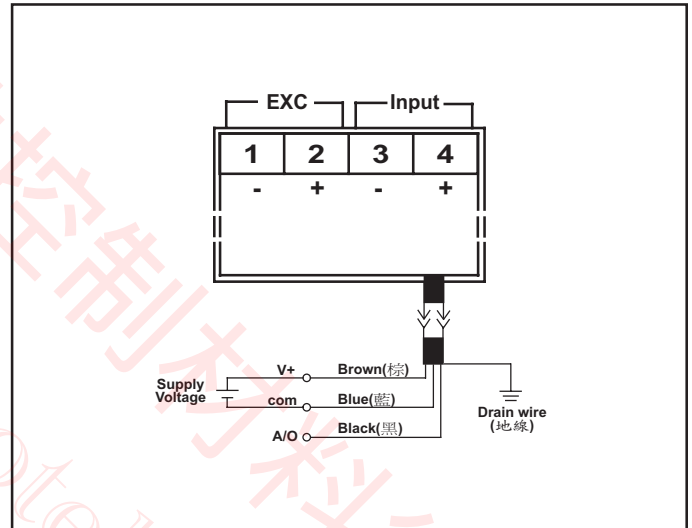
1.MODEL:TWL -
(選購型號)

NO	Input Range	NO	Output Range	NO	Response time	NO	Output cable length
1	1mV/V	C	DC1~5V	1	1ms(0~90%)	2	2M(standard)
2	2mV/V	D	DC0~10V	2	10ms(0~90%)	9	Customer
3	3mV/V	I	DC4~20mA	3	100ms(0~90%)	•3cond.+shield,#28AWG, PVC	
9	SPECIFIED	R	SPECIFIED	9	SPECIFIED		

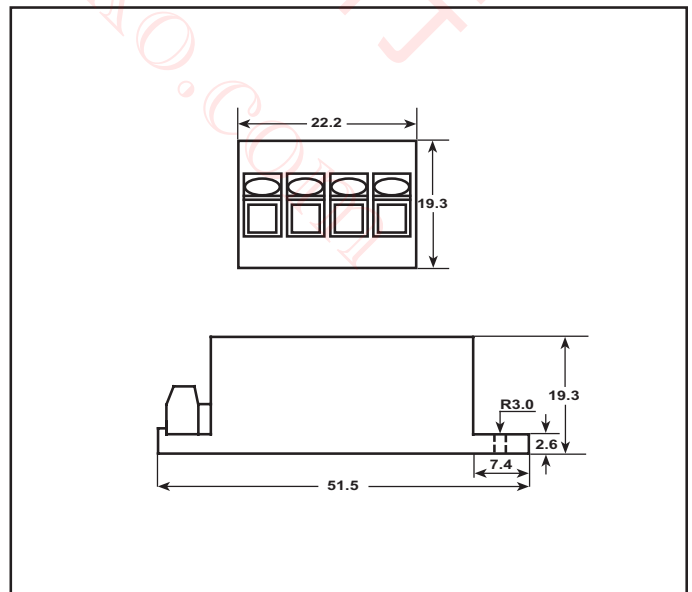
2.SPICIFICATION (主要規格)

- Measuring accuracy (精確度) : ±0.025% F.S.(23±5°C)
- Supply voltage (電源輸入) : DC10 to 30V(Output DC4~20mA/1~5V)
DC14 to 30V(Output DC0~10V)
- Sensor power supply (感應器電源) : 5VDC±0.2%(<50mA)
- Output load capability (輸出負載能力) : >1Kohm (Voltage output)
<[(Vs-7V)/0.02A]ohm (Current output)
- Output ripple(p-p) (輸出漣波) : <0.025% F.S.
- Zero (offset) range (歸零調整範圍) : 0~ ±10%F.S.
- Span (scale) range (最大值調整範圍) : 0~ ±25%F.S.
- Temp. coefficient (溫度係數) : 25ppm/°C (0~60°C)
- Isulation resistance (絕緣阻抗) : >100M ohm with 500Vdc
- 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) : 0~60°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- Input wire range (輸入配線規格) : #14~#26AWG (0.2~2.0mm²)
- Case materials (外殼材料) : PC+ABS
- 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)



直流信號隔離傳送器

(DC SIGNAL ISOLATED TRANSMITTER)

MODEL TD



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1%F.S.)
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出絕緣耐壓 2仟伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小,穩定性高(Dimension small & High stability)

1. MODEL: TD-□□ □□

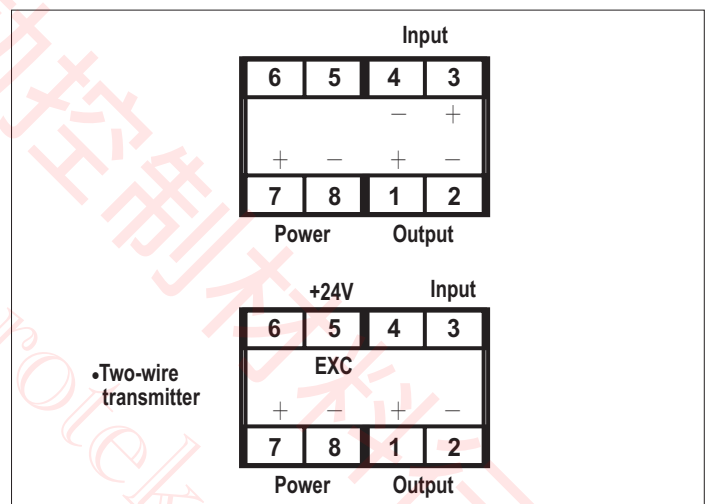
(選購型號)

NO	Input Range	NO	Input Range	NO	Input Range	NO	Input Range	NO	Output Range	NO	Output Range	NO	Aux. Power
10	0~10mV	15	0~10V	20	0~1mA	25	•4~20mA	A	0~50mV	F	0~1mA	A	AC/DC 18~60V
11	0~50mV	16	2~10V	21	0~10mA	29	SPECIFIED	B	0~1V	G	0~10mA	B	AC/DC 90~260V
12	0~1V	17	-10~+10V	22	0~20mA	•Exciting DC24V(<25mA) (two-wire transmitter)	C	1~5V	H	0~20mA	C	AC110V(50/60Hz)±20%	
13	0~5V	18	0~100V	23	4~20mA		D	0~10V	I	4~20mA	D	AC220V(50/60Hz)±20%	
14	1~5V	19	0~200V	24	10~50mA		E	2~10V	R	SPECIFIED		•Less 3VA for AC/DC input	

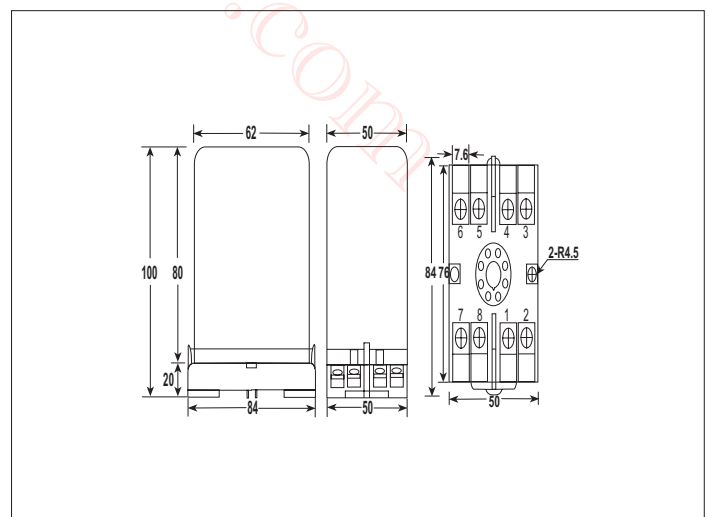
2. SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.1% F.S. (23±5°C)
- Input resistance (輸入阻抗) : >100Mohm (<2V range)
>2Mohm (>2V range)
<100 ohm (current input)
- Maximum input (最大過載能力) : <600Vrms (>2V ranges)
<150Vrms (<2V ranges)
<150mA (current ranges)
- Response time (輸出反應時間) : <250ms (0~90%)
- Output drive capability (輸出負載能力) : <10mA for voltage mode
<10V for current mode
- Output ripple(p-p) (輸出漣波) : <0.1% F.S.
- Zero (offset) range (歸零調整範圍) : 0~±5% F.S.
- Span (scale) range (最大值調整範圍) : 0~±10% F.S.
- Temp. coefficient (溫度係數) : 100ppm/°C (0~50°C)
- Isolation (隔離特性) : Input/Output/Power/Case
- Insulation Resistance (絕緣阻抗) : >100M ohm with 500V DC
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power)
1600Vdc (input/output)
- Operating condition (使用環境條件) : 0~60°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- Construction (安裝方式) : Socket/plugin type with barrier terminals
- 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)



電位計隔離傳送器

(POTENTIOMETER ISOLATED TRANSMITTER)

MODEL
TK



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1% F.S.)
- 寬輸入範圍200ohm至50Kohm(Wide input ranges from 200ohm to 50Kohm)
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出絕緣耐壓 2仟伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小,穩定性高(Dimension small and High stability)

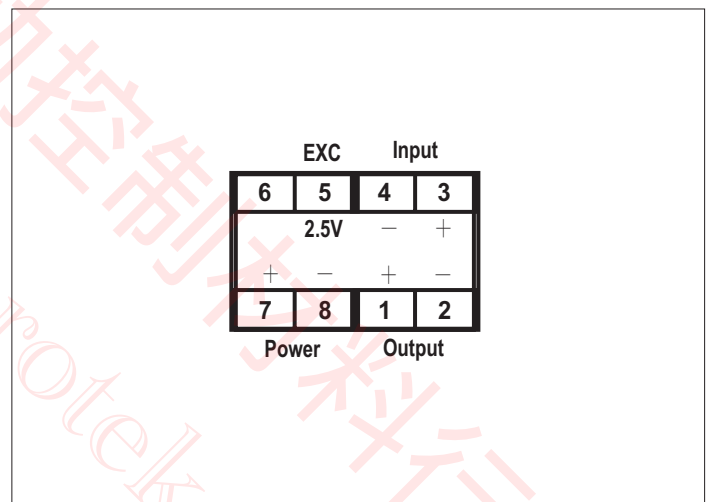
1.MODEL:TK-□□□ (選購型號)

NO	Input Range	NO	Input Range	NO	Input Range	NO	Output Range	NO	Output Range	NO	Output Range	NO	Aux. Power
1	0~10%	4	0~90%	7	0~100%	A	0~50mV	E	2~10V	I	4~20mA	A	AC/DC 18~60V
2	0~25%	5	10~90%	9	SPECIFIED	B	0~1V	F	0~1mA	R	SPECIFIED	B	AC/DC 90~260V
3	0~50%	6	5~95%			C	1~5V	G	0~10mA			C	AC110V(50/60Hz)±20%
											D	AC220V(50/60Hz)±20%	
•Exciting Voltage 2.5VDC(<12.5mA)											•Less 3VA for AC/DC input		

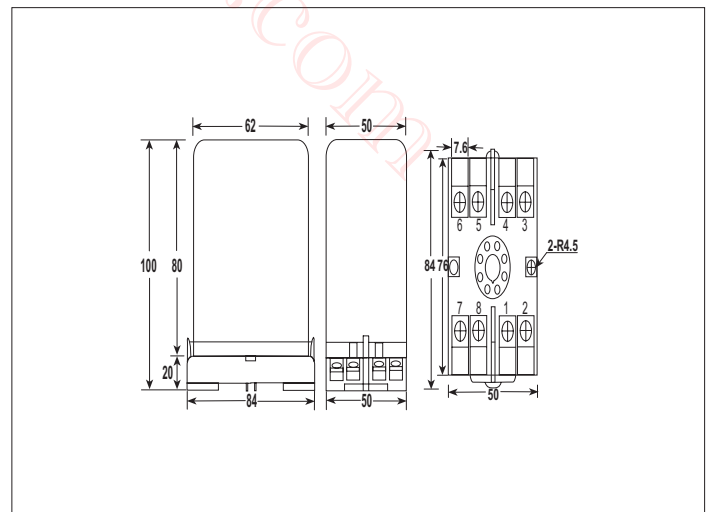
2.SPECIFICATION (主要規格)

- Measuring accuracy : 0.1% F.S. (23±5°C)
(精確度)
- Exciting voltage(current): 2.5VDC(<12.5mA)
(電位計電源)
- Response time : <250ms (0~90%)
(輸出反應時間)
- Output drive capability : <10mA for voltage mode
(輸出負載能力) <10V for current mode
- Output ripple(p-p) : <0.1% F.S.
(輸出漣波)
- Zero (offset) range : 0~±5% F.S.
(歸零調整範圍)
- Span (scale) range : 0~±10% F.S.
(最大值調整範圍)
- Temp. coefficient : 100ppm/°C (0~50°C)
(溫度係數)
- Isolation : Input/Output/Power/Case
(隔離特性)
- Insulation Resistance : >100M ohm with 500V DC
(絕緣阻抗)
- Dielectric strength : 2KVac/1 min. (input/output/power)
(絕緣耐壓能力) 1600Vdc (input/output)
- Operating condition : 0~60°C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
(存放環境條件)
- Construction : Socket/plugin type with barrier terminals
(安裝方式)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
(CE 認證) 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)



電阻隔離傳送器

(RESISTANCE ISOLATED TRANSMITTER)

MODEL
TR



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1% F.S.)
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出絕緣耐壓 2千伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小、穩定性高(Dimension small and High stability)

1.MODEL:TR-□ □ □ (選購型號)

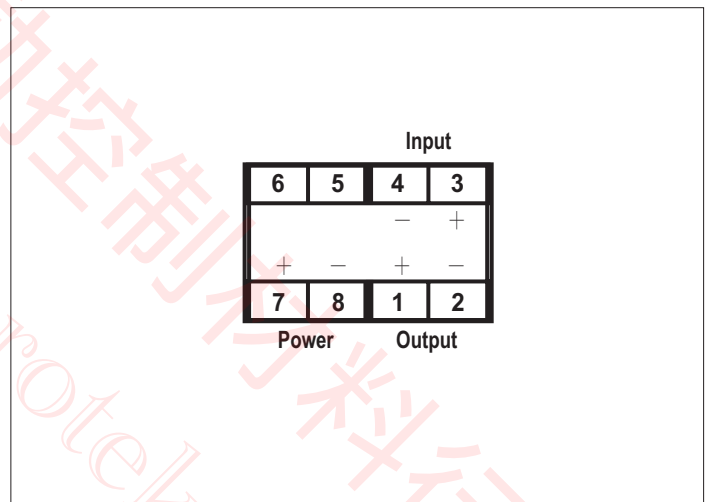
NO	Input Range	NO	Input Range	NO	Input Range	NO	Output Range	NO	Output Range	NO	Output Range	NO	Aux. Power
1	0~100 ohm(<10mA)	4	0~2K ohm(<500uA)	7	0~100Kohm(<10uA)	A	0~50mV	E	2~10V	I	4~20mA	A	AC/DC 18~60V
2	0~500 ohm(<2mA)	5	0~5K ohm(<200uA)	9	SPECIFIED	B	0~1V	F	0~1mA	R	SPECIFIED	B	AC/DC 90~260V
3	0~1K ohm(<1mA)	6	0~10Kohm(<100uA)			C	1~5V	G	0~10mA			C	AC110V(50/60Hz)±20%
						D	0~10V	H	0~20mA			D	AC220V(50/60Hz)±20%

• Input Range(Sensor Current) • Less 3VA for AC/DC input

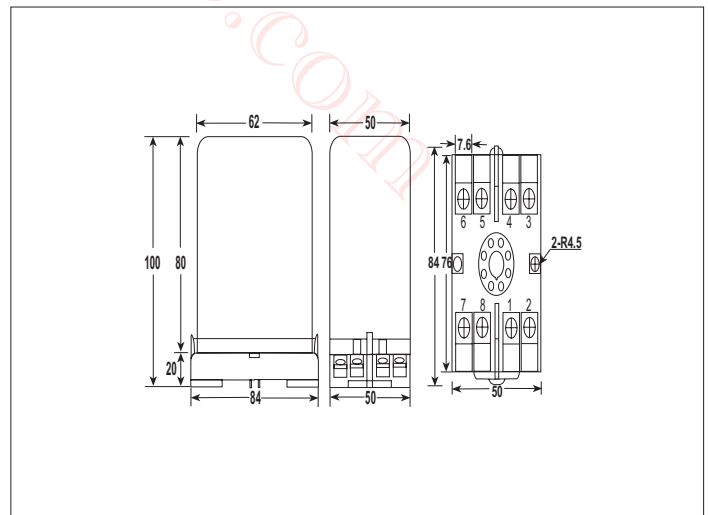
2.SPECIFICATION (主要規格)

- Measuring accuracy : 0.1% F.S. (23±5°C)
(精確度)
- Sensor exciting current : 0~100 ohm(<10mA)
(電阻量測電流) 0~500 ohm(<2mA)
0~1K ohm(<1mA)
0~2K ohm(<500uA)
0~5K ohm(<200uA)
0~10K ohm(<100uA)
0~100K ohm(<10uA)
- Response time : <250ms (0~90%)
(輸出反應時間)
- Output drive capability : <10mA for voltage mode
(輸出負載能力) <10V for current mode
- Output ripple(p-p) : <0.1% F.S.
(輸出漣波)
- Zero (offset) range : 0~±5% F.S.
(歸零調整範圍)
- Span (scale) range : 0~±10% F.S.
(最大值調整範圍)
- Temp. coefficient : 100ppm/°C (0~50°C)
(溫度係數)
- Isolation : Input/Output/Power/Case
(隔離特性)
- Insulation Resistance : >100M ohm with 500V DC
(絕緣阻抗)
- Dielectric strength : 2KVac/1 min. (input/output/power)
(絕緣耐壓能力) 1600Vdc (input/output)
- Operating condition : 0~60°C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
(存放環境條件)
- Construction : Socket/plugin type with barrier terminals
(安裝方式)

3.TERMINAL CONNECTION (接線圖)



4.DIMENSION(unit:mm) (外型尺寸)



電阻式溫度隔離傳送器

(RTD (Pt-100) ISOLATED TRANSMITTER)

MODEL
TP



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1% F.S.)
- 多種輸入輸出選擇 (Wide selection of input/output range)
- 三線式接線自動補償線路阻抗效應 (3 wire configuration automatically compensate line resistance effects)
- 寬範圍交直流兩用電源設計 (Wide input range for auxiliary power)
- 尺寸小、穩定性高 (Dimension small and High stability)

1. MODEL: TP-□ □ □

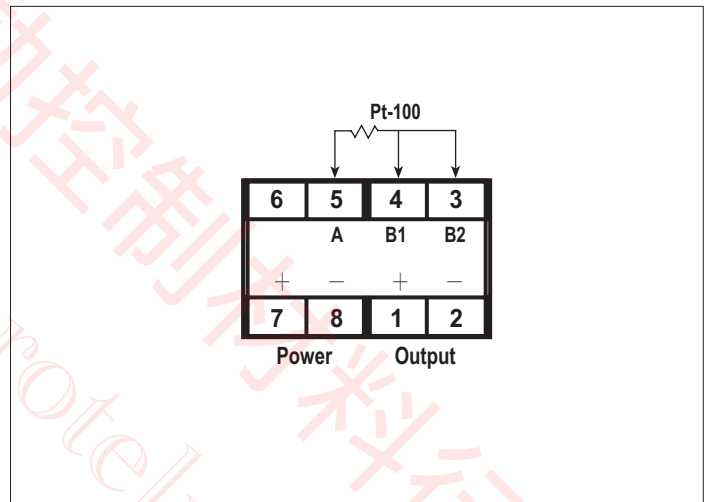
(選購型號)

NO	Input Range	NO	Input Range	NO	Input Range	NO	Output Range	NO	Output Range	NO	Output Range	NO	Aux. Power
1	0~50°C	4	0~400°C	7	-100°C~+100°C	A	0~50mV	E	2~10V	I	4~20mA	A	AC/DC 18~60V
2	0~100°C	5	0~800°C	9	SPECIFIED	B	0~1V	F	0~1mA	R	SPECIFIED	B	AC/DC 90~260V
3	0~200°C	6	-50°C~+50°C			C	1~5V	G	0~10mA			C	AC110V(50/60Hz)±20%
						D	0~10V	H	0~20mA			D	AC220V(50/60Hz)±20%
• DIN standard (TCR:385ppm/°C)												• Less 3VA for AC/DC input	

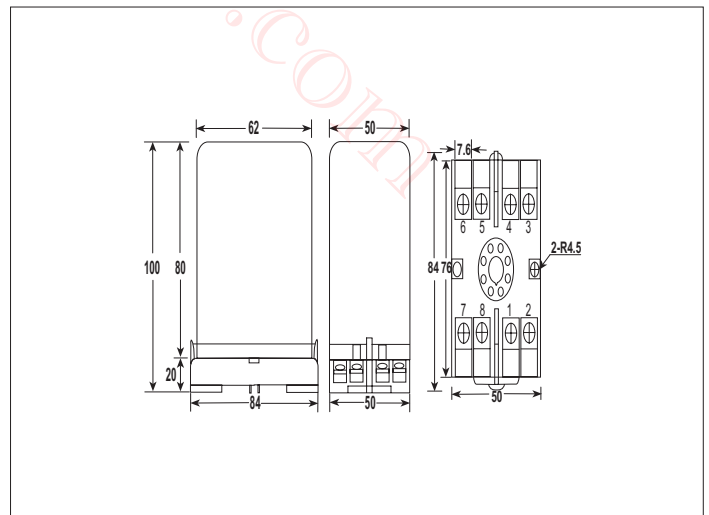
2. SPECIFICATION (主要規格)

- Measuring accuracy : 0.1% F.S. (23±5°C) (精確度)
- Sensor exciting current : <2mA (感應器電流)
- Response time : <250ms (0~90%) (輸出反應時間)
- Output drive capability : <10mA for voltage mode <10V for current mode (輸出負載能力)
- Output ripple(p-p) : <0.1% F.S. (輸出漣波)
- Zero (offset) range : 0~±5% F.S. (歸零調整範圍)
- Span (scale) range : 0~±10% F.S. (最大值調整範圍)
- Temp. coefficient : 100ppm/°C (0~50°C) (溫度係數)
- Isolation : Input/Output/Power/Case (隔離特性)
- Insulation Resistance : >100M ohm with 500V DC (絕緣阻抗)
- Dielectric strength : 2KVac/1 min. (input/output/power) 1600Vdc (input/output) (絕緣耐壓能力)
- Operating condition : 0~60°C (20 to 90% RH non-condensed) (使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed) (存放環境條件)
- Construction : Socket/plugin type with barrier terminals (安裝方式)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A EN 61000-3-2:2000 EN 61000-3-3:1995/A1:2001 EN 55024:1998/A1:2001 (CE 認證)

3. TERMINAL CONNECTION (接線圖)



4. DIMENSION (unit:mm) (外型尺寸)



荷重元件隔離傳送器

(LOAD-CELL ISOLATED TRANSMITTER)

MODEL
TL



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1%F.S.)
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出絕緣耐壓 2千伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小,穩定性高(Dimension small & High stability)

1. MODEL: TL-□□□□ (選購型號)

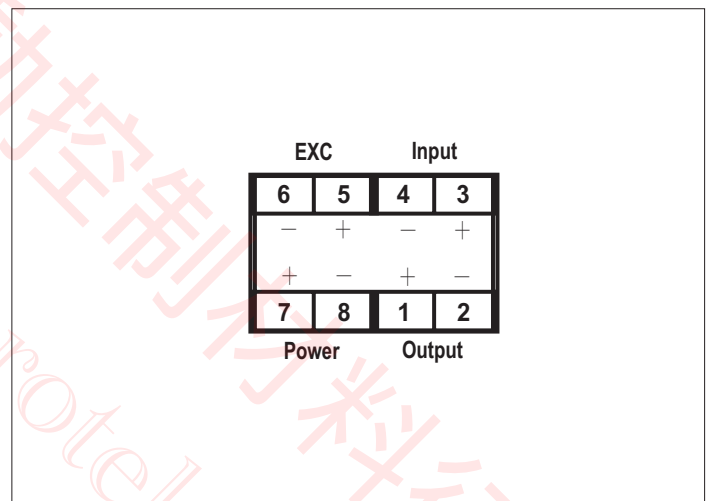
NO	Input Range	NO	Input Range	NO	Exciting Voltage	NO	Output Range	NO	Output Range	NO	Output Range	NO	Aux. Power
1	1mV/V	5	5mV/V	A	5V (<50mA)	A	0~50mV	E	2~10V	I	4~20mA	A	AC/DC 18~60V
2	1.5mV/V	9	SPECIFIED	B	10V (<50mA)	B	0~1V	F	0~1mA	R	SPECIFIED	B	AC/DC 90~260V
3	2mV/V			C	12V (<50mA)	C	1~5V	G	0~10mA			C	AC110V(50/60Hz)±20%
4	3mV/V			R	SPECIFIED	D	0~10V	H	0~20mA			D	AC220V(50/60Hz)±20%

• Less 3VA for AC/DC input

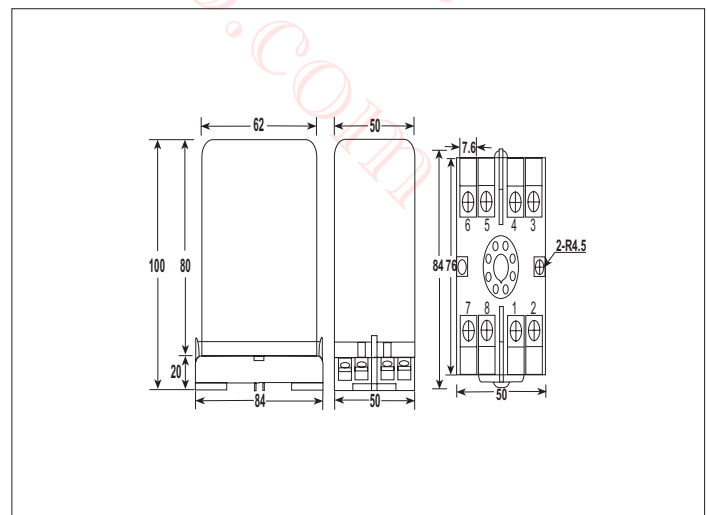
2. SPECIFICATION (主要規格)

- Measuring accuracy : 0.1% F.S. (23±5°C) (精確度)
- Exciting voltage : 5V±3% (<50mA) (感應器電源)
10V±3% (<50mA)
12V±3% (<50mA)
- Response time : <250ms (0~90%) (輸出反應時間)
- Output drive capability : <10mA for voltage mode (輸出負載能力)
<10V for current mode
- Output ripple(p-p) : <0.1% F.S. (輸出漣波)
- Zero (offset) range : 0~±20% F.S. (歸零調整範圍)
- Span (scale) range : 0~±10% F.S. (最大值調整範圍)
- Temp. coefficient : 100ppm/°C (0~50°C) (溫度係數)
- Isolation : Input/Output/Power/Case (隔離特性)
- Insulation Resistance : >100M ohm with 500V DC (絕緣阻抗)
- Dielectric strength : 2KVac/1 min. (input/output/power) (絕緣耐壓能力)
1600Vdc (input/output)
- Operating condition : 0~60°C (20 to 90% RH non-condensed) (使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed) (存放環境條件)
- Construction : Socket/plugin type with barrier terminals (安裝方式)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A (CE 認證)
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)



交流電壓, 電流隔離傳送器 (AC CURRENT & VOLTAGE ISOLATED TRANSMITTER)

MODEL
TA



■特點(FEATURES)

- 精確度0.1%滿刻度(TRMS),0.25%滿刻度(RMS) (Accuracy 0.1%F.S.(TRMS),0.25%F.S.(RMS))
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出絕緣耐壓 2千伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小,穩定性高(Dimension small & High stability)

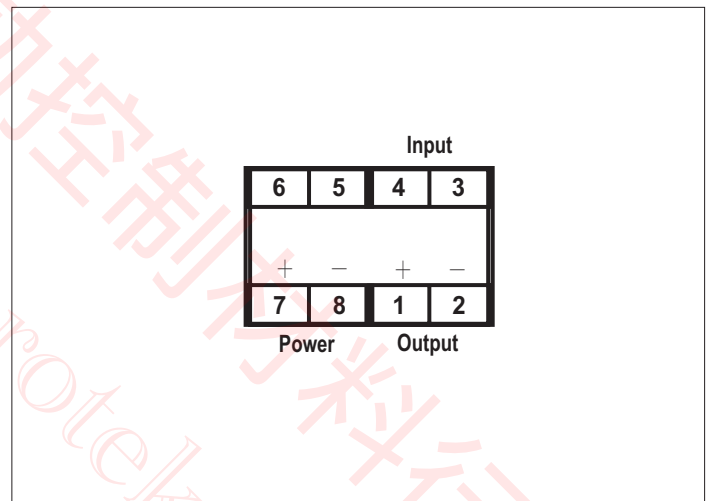
1. MODEL: TA- -> **CTB** **CTB(diode block) is supplied to protect the current transformer from burning when the loop is open**

NO	Input Type	NO	Input Range	NO	Input Range	NO	Output Range	NO	Output Range	NO	Aux. Power
A	Voltage(RMS)	1	AC0~36V	6	AC0~1A	A	0~50mV	F	0~1mA	A	AC/DC 18~60V
B	Voltage(TRMS)	2	AC0~110V	7	AC0~5A	B	0~1V	G	0~10mA	B	AC/DC 90~260V
C	Current(RMS)	3	AC0~150V	8	AC0~10A	C	1~5V	H	0~20mA	C	AC110V(50/60Hz)±20%
D	Current(TRMS)	4	AC0~220V	9	SPECIFIED	D	0~10V	I	4~20mA	D	AC220V(50/60Hz)±20%
		5	AC0~300V			E	2~10V	R	SPECIFIED		•Less 3VA for AC/DC input

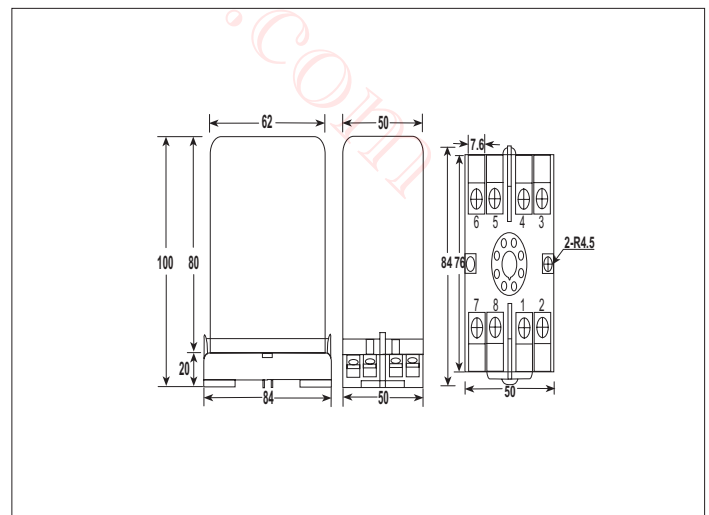
2.SPCIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.1% F.S. (TRMS), 0.25% F.S. (RMS)
- Input burden (輸入負載) : <0.2VA
- Input frequency (輸入頻率) : AC40~70Hz
- Maximum input over (最大過載能力) : Current related input: 3 x rated continuous, 10 x rated 30 sec., 25 x rated 3 sec., 50 x rated 1 sec. Voltage related input: maximum 2 x rate continuous
- Response time (輸出反應時間) : <250ms (0~90%)
- Output drive capability (輸出負載能力) : <10mA for voltage mode, <10V for current mode
- Output ripple(p-p) (輸出漣波) : <0.1% F.S.
- Zero (offset) range (歸零調整範圍) : 0~±5% F.S.
- Span (scale) range (最大值調整範圍) : 0~±10% F.S.
- Temp. coefficient (溫度係數) : 100ppm/°C (0~50°C)
- Isolation (隔離特性) : Input/Output/Power/Case
- Insulation Resistance (絕緣阻抗) : >100Mohm with 500V DC
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power), 1600Vdc (input/output)
- Operating condition (使用環境條件) : 0~60°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- Construction (安裝方式) : Socket/plugin type with barrier terminals
- 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)



直流信號隔離雙輸出傳送器

(DUAL OUTPUT DC SIGNAL ISOLATED TRANSMITTER)

**MODEL
DTD**



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1%F.S.)
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出1/輸出2絕緣耐壓 2千伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output1/output2))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小,穩定性高(Dimension small & High stability)

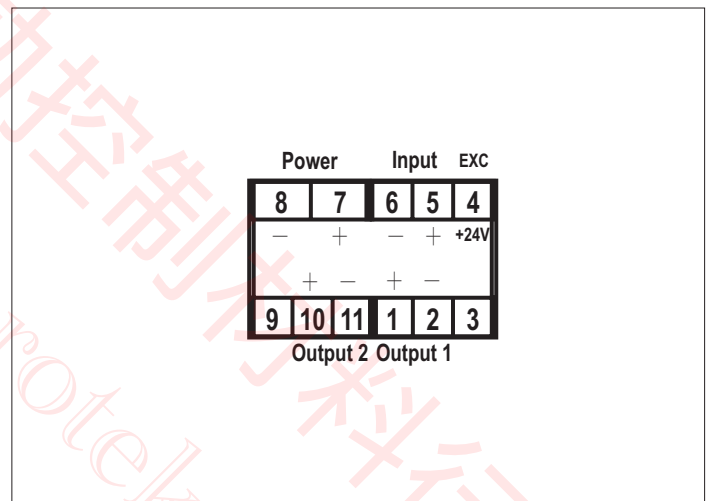
1.MODEL:DTD-□ □ □ □ (選購型號)

NO	Input Range	NO	Input Range	NO	Output 1 Range	NO	Output 2 Range	NO	Aux. Power
1	0~50mV	6	4~20mA	C	1~5V	C	1~5V	A	AC/DC 18~60V
2	0~1V	7	• 4~20mA	D	0~10V	D	0~10V	B	AC/DC 90~260V
3	0~5V	9	SPECIFIED	F	0~1mA	F	0~1mA	• Less 4VA for AC/DC input	
4	1~5V	• Exciting DC24V(<25mA) (two-wire transmitter)		I	4~20mA	I	4~20mA		
5	0~10V			R	SPECIFIED	R	SPECIFIED		

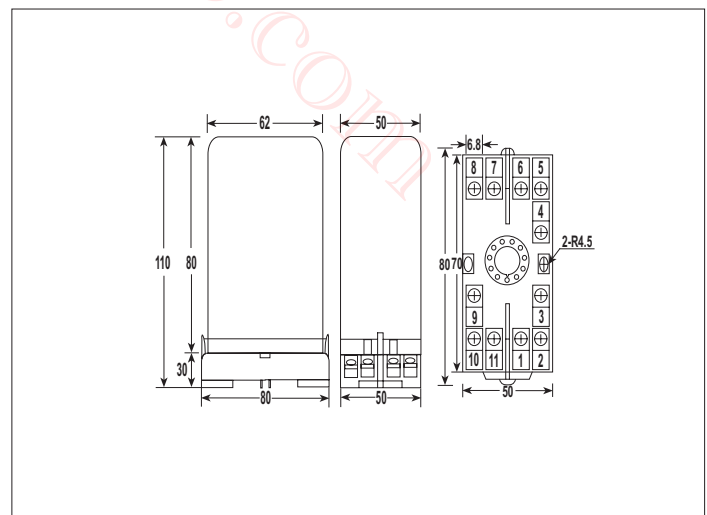
2.SPCIFICATION (主要規格)

- Measuring accuracy : 0.1% F.S. (23±5°C)
(精確度)
- Input resistance : >100Mohm (<2V range)
>2Mohm (>2V range)
<100 ohm (current input)
(輸入阻抗)
- Maximum input : <600Vrms (>2V ranges)
<150Vrms (<2V ranges)
<150mA (current ranges)
(最大過載能力)
- Response time : <250ms (0~90%)
(輸出反應時間)
- Output drive capability : <10mA for voltage mode
<10V for current mode
(輸出負載能力)
- Output ripple(p-p) : <0.1% F.S.
(輸出漣波)
- Zero (offset) range : 0~±5% F.S.
(歸零調整範圍)
- Span (scale) range : 0~±10% F.S.
(最大值調整範圍)
- Temp. coefficient : 100ppm/°C (0~50°C)
(溫度係數)
- Isolation : Input/Output1/Output2/Power/Case
(隔離特性)
- Insulation Resistance : >100M ohm with 500V DC
(絕緣阻抗)
- Dielectric strength : 2KVac/1 min. (input/output1/output2/power)
1600Vdc (input/output)
(絕緣耐壓能力)
- Operating condition : 0~60°C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
(存放環境條件)
- Construction : Socket/plugin type with barrier terminals
(安裝方式)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
(CE 認證)
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)



電位計隔離雙輸出傳送器

(DUAL OUTPUT POTENTIOMETER ISOLATED TRANSMITTER)

MODEL
DTK



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1% F.S.)
- 寬輸入範圍200ohm至50Kohm(Wide input ranges from 200ohm to 50Kohm)
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出1/輸出2絕緣耐壓 2千伏特/1分鐘(Dielectric strength 2KVvac/1 min.(input/output1/output2))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小,穩定性高(Dimension small and High stability)

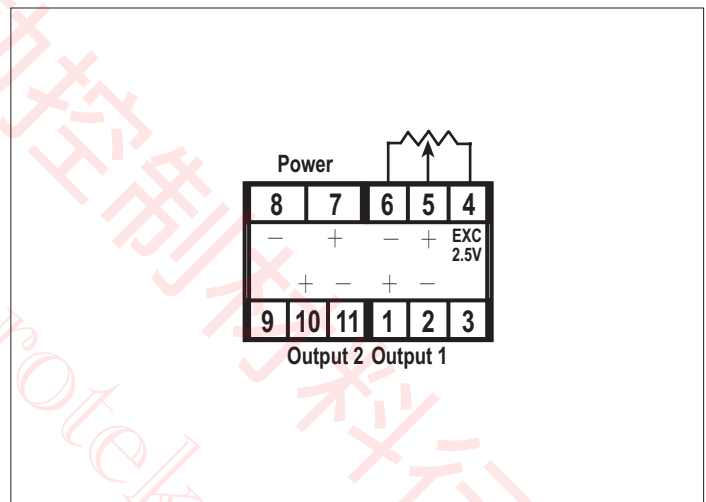
1.MODEL:DTK-□ □ □ □ (選購型號)

NO	Input Range	NO	Input Range	NO	Output 1 Range	NO	Output 2 Range	NO	Aux. Power
1	0~10%	6	5~95%	C	1~5V	C	1~5V	A	AC/DC 18~60V
2	0~25%	7	0~100%	D	0~10V	D	0~10V	B	AC/DC 90~260V
3	0~50%	9	SPECIFIED	F	0~1mA	F	0~1mA	• Less 4VA for AC/DC input	
4	0~90%	• Exciting Voltage DC2.5V(<12.5mA)		I	4~20mA	I	4~20mA		
5	10~90%			R	SPECIFIED	R	SPECIFIED		

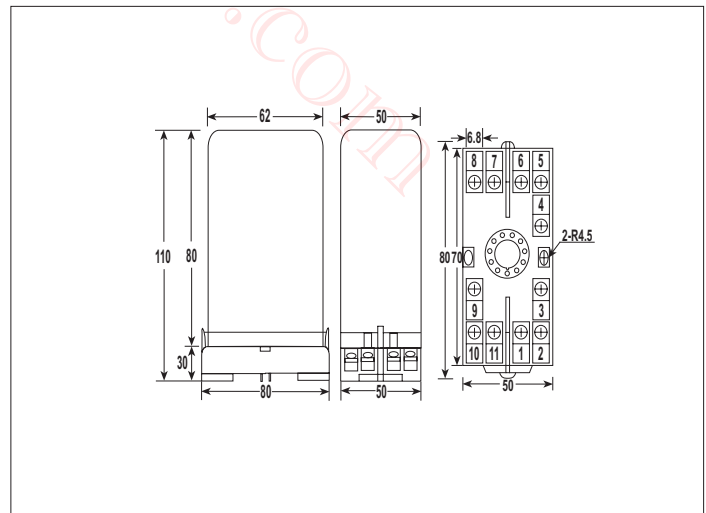
2.SPCIFICATION (主要規格)

- Measuring accuracy : 0.1% F.S. (23±5°C) (精確度)
- Exciting voltage(current): 2.5VDC(<12.5mA) (電位計電源)
- Response time : <250ms (0~90%) (輸出反應時間)
- Output drive capability : <10mA for voltage mode (輸出負載能力)
- Output ripple(p-p) : <0.1% F.S. (輸出漣波)
- Zero (offset) range : 0~±5% F.S. (歸零調整範圍)
- Span (scale) range : 0~±10% F.S. (最大值調整範圍)
- Temp. coefficient : 100ppm/°C (0~50°C) (溫度係數)
- Isolation : Input/Output1/Output2/Power/Case (隔離特性)
- Insulation Resistance : >100M ohm with 500V DC (絕緣阻抗)
- Dielectric strength : 2KVvac/1 min. (input/output1/output2/power) 1600Vdc (input/output) (絕緣耐壓能力)
- Operating condition : 0~60°C (20 to 90% RH non-condensed) (使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed) (存放環境條件)
- Construction : Socket/plugin type with barrier terminals (安裝方式)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001 (CE 認證)

3.TERMINAL CONNECTION (接線圖)



4.DIMENSION(unit:mm) (外型尺寸)



電阻式溫度隔離雙輸出傳送器

(DUAL OUTPUT RTD (Pt-100) ISOLATED TRANSMITTER)

MODEL
DTP



■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1% F.S.)
- 多種輸入輸出選擇 (Wide selection of input/output range)
- 三線式接線自動補償線路阻抗效應 (3 wire configuration automatically compensate line resistance effects)
- 寬範圍交直流兩用電源設計 (Wide input range for auxiliary power)
- 尺寸小,穩定性高 (Dimension small and High stability)

1.MODEL:DTP-□ □ □ □

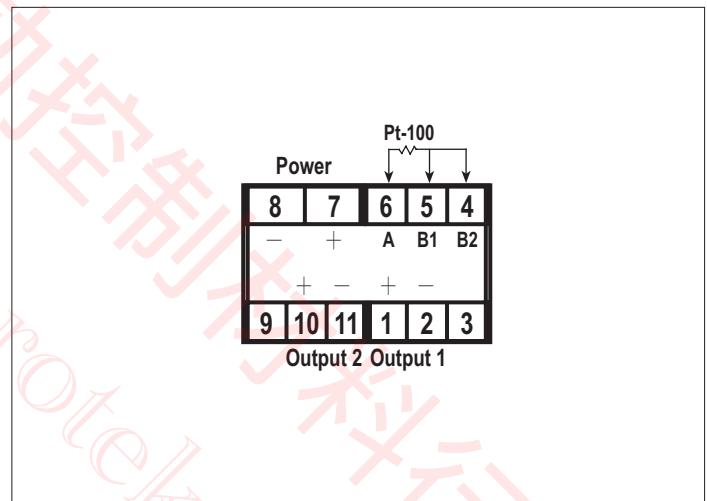
(選購型號)

NO	Input Range	NO	Input Range	NO	Output 1 Range	NO	Output 2 Range	NO	Aux. Power
1	0~50°C	6	-50~+50°C	C	1~5V	C	1~5V	A	AC/DC 18~60V
2	0~100°C	7	-100~+100°C	D	0~10V	D	0~10V	B	AC/DC 90~260V
3	0~200°C	9	SPECIFIED	F	0~1mA	F	0~1mA		• Less 4VA for AC/DC input
4	0~400°C		• DIN standard (TCR=385ppm/°C)	I	4~20mA	I	4~20mA		
5	0~800°C			R	SPECIFIED	R	SPECIFIED		

2.SPICIFICATION (主要規格)

- Measuring accuracy : 0.1% F.S. (23±5°C) (精確度)
- Sensor exciting current : <2mA (感應器電流)
- Response time : <250ms (0~90%) (輸出反應時間)
- Output drive capability : <10mA for voltage mode <10V for current mode (輸出負載能力)
- Output ripple(p-p) : <0.1% F.S. (輸出漣波)
- Zero (offset) range : 0~±5% F.S. (歸零調整範圍)
- Span (scale) range : 0~±10% F.S. (最大值調整範圍)
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3.TERMINAL CONNECTION (接線圖)



4.DIMENSION(unit:mm) (外型尺寸)

