

# 薄型直流信號隔離傳送器

(SLIM TYPE DC SIGNAL ISOLATED TRANSMITTER)

MODEL  
STD



## ■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 1.5KV伏特/1分鐘(Dielectric strength 1.5KVac/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:STD-□ □ □ □

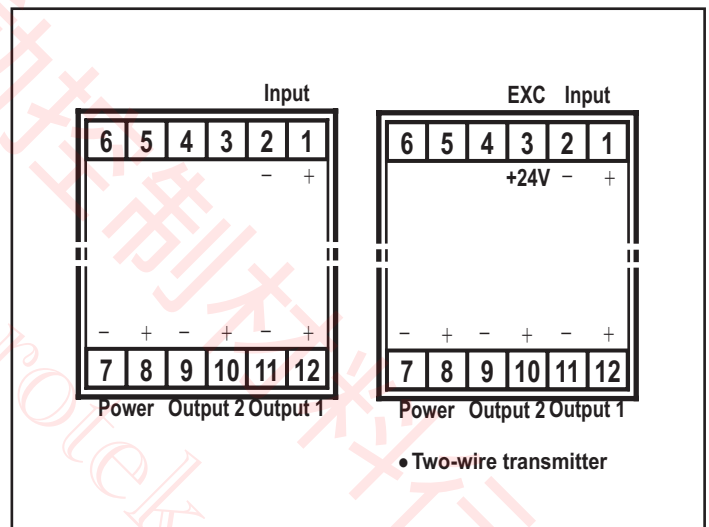
(選購型號)

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	N	None	A	AC/DC 18~60V
2	0~1V	7	•4~20mA	D	0~10V	C	1~5V	B	AC/DC 90~260V
3	0~5V	9	SPECIFIED	F	0~1mA	D	0~10V		•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		

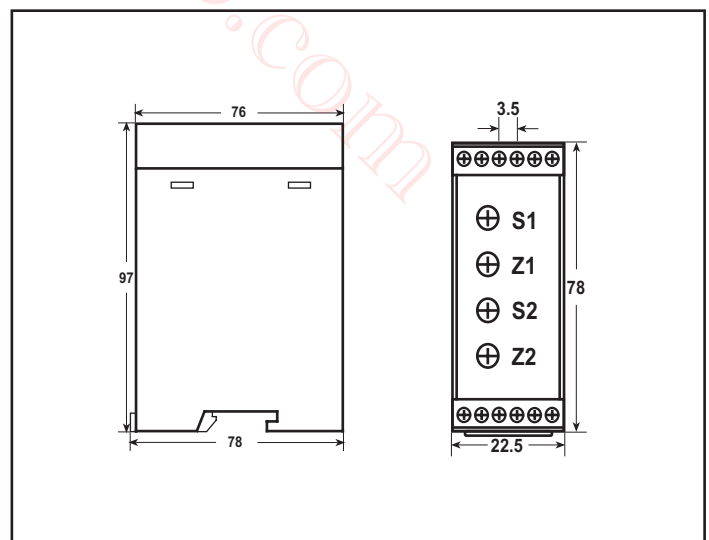
## 2.SPCIFICATION (主要規格)

- 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 : 1.5KVac/1 min. (input/Output1/Output2/power)  
1200Vdc (input/Output1/Output2)  
(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 : 35mm DIN rail (EN50022)  
(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)



# 薄型電位計隔離傳送器

(SLIM TYPE POTENTIOMETER ISOLATED TRANSMITTER)

MODEL  
STK



## ■特點(FEATURES)

- 精確度0.1%滿刻度 (Accuracy 0.1%F.S.)
- 寬輸入範圍200 ohm至50K ohm(Wide input range from 200 ohm to 50K ohm)
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入與輸出絕緣耐壓 1.5千伏特/1分鐘(Dielectric strength 1.5KVac/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)

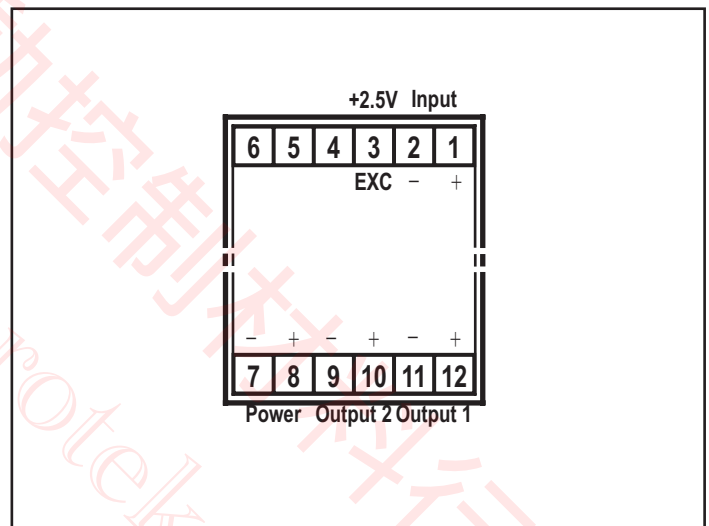
### 1.MODEL:STK-□ □ □ □ (選購型號)

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	N	None	A	AC/DC 18~60V
2	0~25%	7	0~100%	D	0~10V	C	1~5V	B	AC/DC 90~260V
3	0~50%	9	SPECIFIED	F	0~1mA	D	0~10V		• 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		

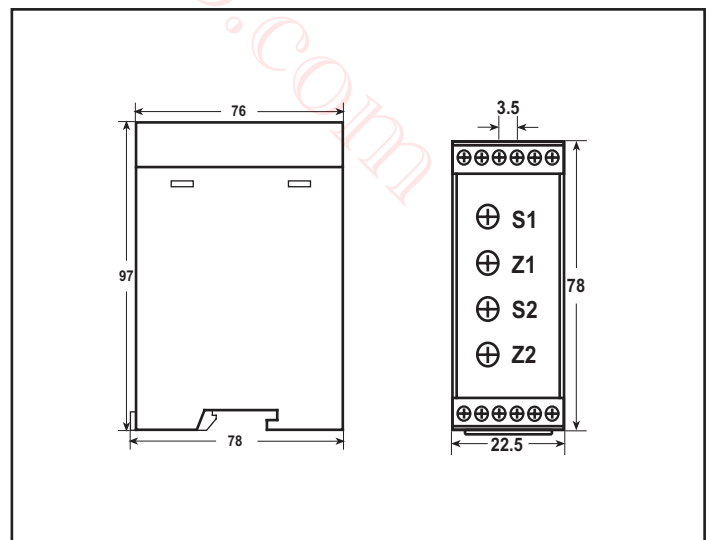
### 2.SPCIFICATION (主要規格)

- 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) <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/Output1/Output2/Power/Case  
(隔離特性)
- Insulation Resistance : >100M ohm with 500V DC  
(絕緣阻抗)
- Dielectric strength : 1.5KVac/1 min. (input/Output1/Output2/power)  
(絕緣耐壓能力) 1200Vdc (input/Output1/Output2)
- 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 : 35mm DIN rail (EN50022)  
(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)



# 薄型電阻隔離傳送器

(SLIM TYPE RESISTANCE ISOLATED TRANSMITTER)

MODEL  
STR



## ■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 1.5仟伏特/1分鐘(Dielectric strength 1.5KVac/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:STR-□ □ □ □

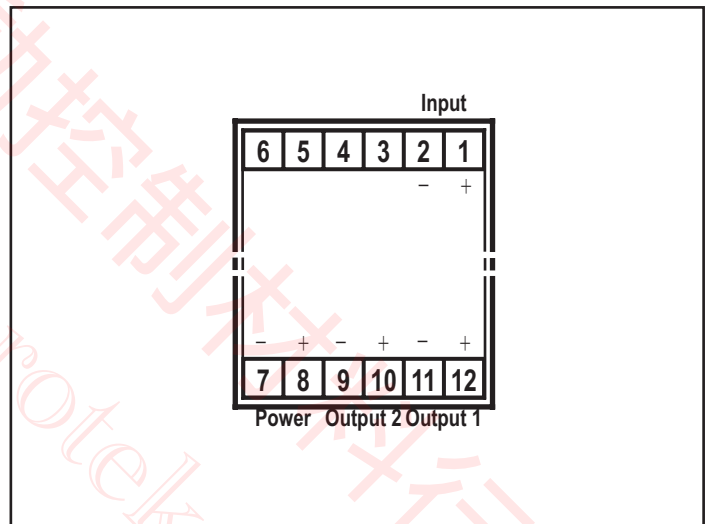
(選購型號)

NO	Input Range	NO	Input Range	NO	Output 1 Range	NO	Output 2 Range	NO	Aux. Power
1	0~100 ohm(<10mA)	6	0~10K ohm(<100uA)	C	1~5V	N	None	A	AC/DC 18~60V
2	0~500 ohm(<2mA)	7	0~100K ohm(<10uA)	D	0~10V	C	1~5V	B	AC/DC 90~260V
3	0~1K ohm(<1mA)	9	SPECIFIED	F	0~1mA	D	0~10V		
4	0~2K ohm(<500uA)		• Input Range(Sensor Current)	I	4~20mA	I	4~20mA		• Less 4VA for AC/DC input
5	0~5K ohm(<200uA)			R	SPECIFIED	R	SPECIFIED		

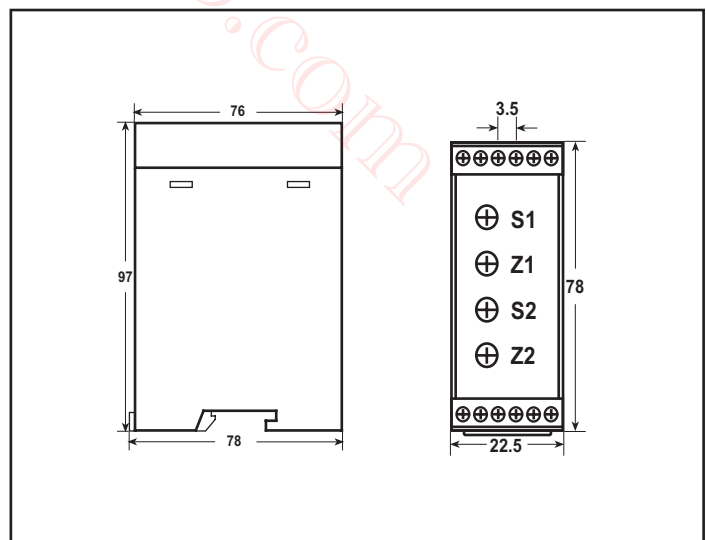
## 2.SPCIFICATION (主要規格)

- 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/Output1/Output2/Power/Case (隔離特性)
- Insulation Resistance : >100M ohm with 500V DC (絕緣阻抗)
- Dielectric strength : 1.5KVac/1 min. (input/Output1/Output2/power) (絕緣耐壓能力)  
1200Vdc (input/Output1/Output2)
- 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 : 35mm DIN rail (EN50022) (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)



# 薄型電阻式溫度(Pt-100)隔離傳送器

( SLIM TYPE RTD (Pt-100) ISOLATED TRANSMITTER )

MODEL  
STP



## ■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 & High stability)

## 1.MODEL:STP-□ □ □ □

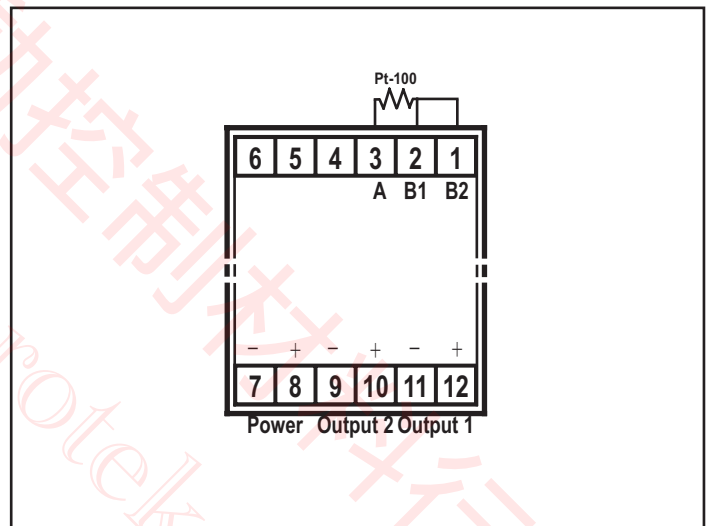
(選購型號)

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	N	None	A	AC/DC 18~60V
2	0~100°C	7	-100~+100°C	D	0~10V	C	1~5V	B	AC/DC 90~260V
3	0~200°C	9	SPECIFIED	F	0~1mA	D	0~10V		• Less 4VA for AC/DC input
4	0~400°C		• DIN standard (TCR=358ppm/°C)	I	4~20mA	I	4~20mA		
5	0~800°C			R	SPECIFIED	R	SPECIFIED		

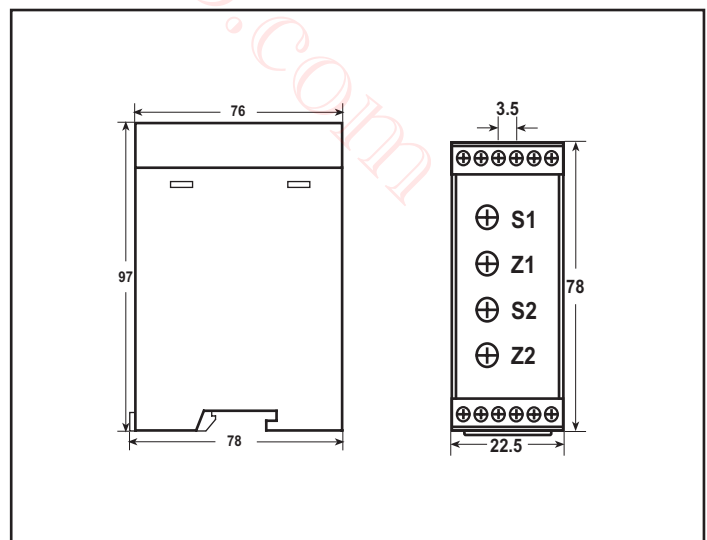
## 2.SPCIFICATION (主要規格)

- 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 (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/Output1/Output2/Power/Case (隔離特性)
- Insulation Resistance : >100M ohm with 500V DC (絕緣阻抗)
- Dielectric strength : 1.5KVac/1 min. (input/Output1/Output2/power) 1200Vdc (input/Output1/Output2) (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 : 35mm DIN rail (EN50022) (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)



# 薄型荷重元件隔離傳送器

(SLIM TYPE LOAD-CELL ISOLATED TRANSMITTER)

MODEL  
STL



## ■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/輸出1/輸出2絕緣耐壓 1.5KV/1分鐘(Dielectric strength 1.5KV/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:STL-□□□□

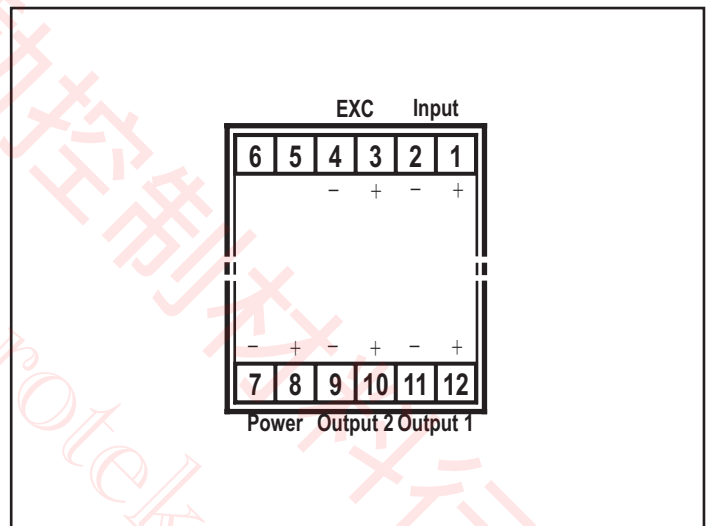
(選購型號)

NO	Input Range	NO	Exciting Voltage	NO	Output 1 Range	NO	Output 2 Range	NO	Aux. Power
1	1mV/1V	A	5V(<50mA)	C	1~5V	N	None	A	AC/DC 18~60V
2	1.5mV/V	B	10V(<50mA)	D	0~10V	C	1~5V	B	AC/DC 90~260V
3	2mV/V	C	12V(<50mA)	F	0~1mA	D	0~10V		• Less 4VA for AC/DC input
4	3mV/V	R	SPECIFIED	I	4~20mA	I	4~20mA		
9	SPECIFIED			R	SPECIFIED	R	SPECIFIED		

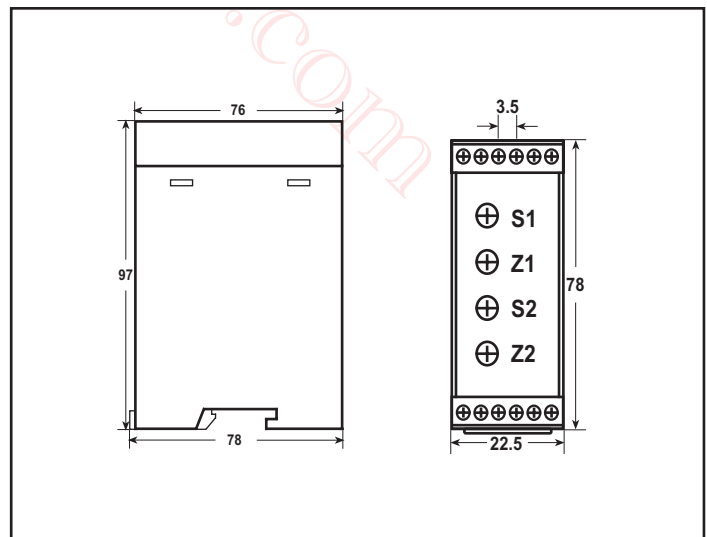
## 2.SPCIFICATION (主要規格)

- 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/Output1/Output2/Power/Case  
(隔離特性)
- Insulation Resistance : >100M ohm with 500V DC  
(絕緣阻抗)
- Dielectric strength : 1.5KVac/1 min. (input/Output1/Output2/power)  
(絕緣耐壓能力)  
1200Vdc (input/Output1/Output2)
- 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 : 35mm DIN rail (EN50022)  
(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)



# 薄型交流電壓, 電流隔離傳送器

( SLIM TYPE AC CURRENT/VOLTAGE ISOLATED TRANSMITTER )

MODEL  
STA



## ■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%(RMS))
- 多種輸入輸出選擇(Wide selection of input/output range)
- 輸入/輸出1/輸出2絕緣耐壓 1.5仟伏特/1分鐘(Dielectric strength 1.5KVac/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)

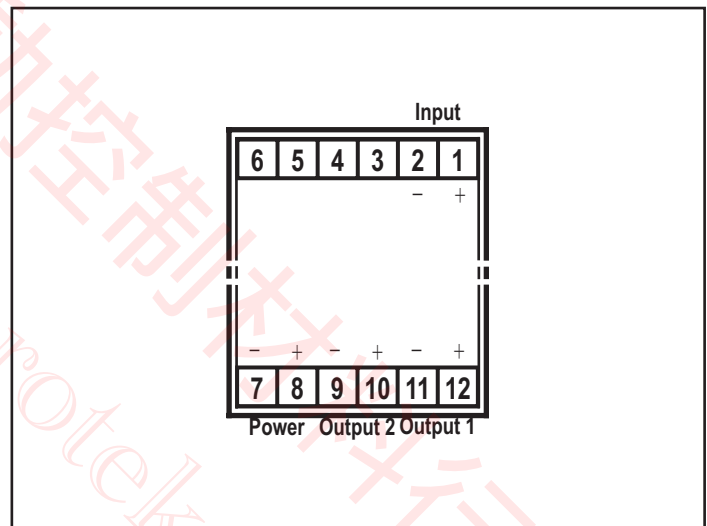
## 1.MODEL:STA-□ □ □ □ □ (選購型號)

NO	Input Type	NO	Input Range	NO	Input Range	NO	Output 1 Range	NO	Output 2 Range	NO	Aux. Power
A	Voltage(RMS)	1	AC0~36V	6	AC0~1A	C	1~5V	N	None	A	AC/DC 18~60V
B	Voltage(TRMS)	2	AC0~110V	7	AC0~5A	D	0~10V	C	1~5V	B	AC/DC 90~260V
C	Current(RMS)	3	AC0~150V	9	SPECIFIED	F	0~1mA	D	0~10V		• Less 4VA for AC/DC input
D	Current(TRMS)	4	AC0~220V			I	4~20mA	I	4~20mA		
		5	AC0~300V			R	SPECIFIED	R	SPECIFIED		

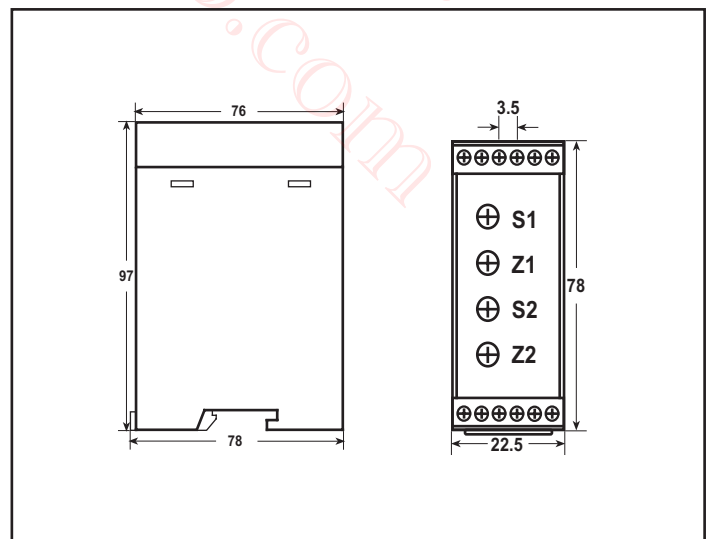
## 2.SPCIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.1% F.S. (TRMS), 0.25% F.S. (RMS)
- Input burden (輸入負載) : <0.2VA (ACV), <0.25VA (ACA)
- 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 rated 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) (輸出連波) : <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/Output1/Output2/Power/Case
- Insulation Resistance (絕緣阻抗) : >100M ohm with 500V DC
- Dielectric strength (絕緣耐壓能力) : 1.5KVac/1 min. (input/Output1/Output2/power), 1200Vdc (input/Output1/Output2)
- 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) : 35mm DIN rail (EN50022)
- 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)



# 薄型頻率隔離傳送器

(SLIM TYPE FREQUENCY ISOLATED TRANSMITTER)

MODEL  
STF



## ■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/輸出1/輸出2絕緣耐壓1.5仟伏特/1分鐘(Dielectric strength 1.5KVac/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:STF-□□□□□

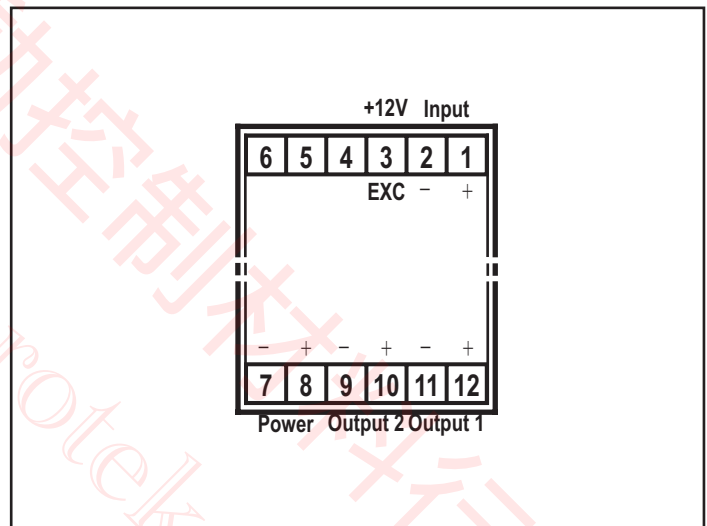
(選購型號)

NO	Input Type	NO	Input Type	NO	Input Range	NO	Output 1 Range	NO	Output 2 Range	NO	Aux. Power
A	Dry contact	E	Magnetic pick-up (AC50mV~1.5V)	1	0~50Hz	C	1~5V	N	None	A	AC/DC 18~60V
B	Pulse(TTL)(5V)	R	SPECIFIED	2	0~1KHz	D	0~10V	D	0~10V	B	AC/DC 90~260V
C	Pulse(NPN)(12V)			3	0~10KHz	I	4~20mA	I	4~20mA		• Less 4VA for AC/DC input
D	Pulse(PNP)(12V)			9	SPECIFIED	R	SPECIFIED	R	SPECIFIED		

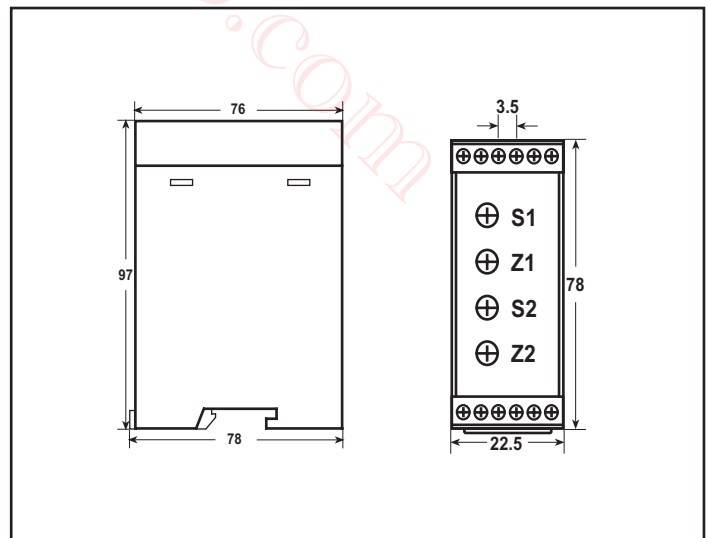
## 2.SPICIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.1% F.S. (TRMS)
- Count input type (脈波輸入型式) : Switch selectable current sourcing(NPN) or current sinking(PNP)
- Pulse input trigger levels (脈波觸發電位) : HI bias (CMOS) ( $V_{IH}=7.5V, V_{IL}=5.5V$ )  
LO bias (TTL) ( $V_{IH}=3.7V, V_{IL}=2.0V$ )
- 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.
- Sensor power supply (感應器電源) : 12VDC±3% (<50mA)
- Temp. coefficient (溫度係數) : 100ppm/°C (0~50°C)
- Isolation (隔離特性) : Input/Output1/Output2/Power/Case
- Insulation Resistance (絕緣阻抗) : >100M ohm with 500V DC
- Dielectric strength (絕緣耐壓能力) : 1.5KVac/1 min. (input/Output1/Output2/power)  
1200Vdc (input/Output1/Output2)
- 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) : 35mm DIN rail (EN50022)
- 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)



# 薄型頻率隔離傳送/警報控制電驛

## (SLIM TYPE FREQUENCY ISOLATED TRANSMITTER & CONTROLLER METER RELAY)

**MODEL SMFTR**



■特點(FEATURES)

- 精確度0.03%滿刻度 (Accuracy 0.03% F.S.)
- 2種輸入頻率(50Hz/50KHz)可任意設定 (Accepts input frequency rate 50Hz or 50KHz can be modified)
- 可量測直流脈波、開關接點、磁性感應器信號 (Measuring Pulse(TTL,CMOS),Switch contact Magnetic pick-up signal)
- 頻率輸入範圍0.01Hz至50KHz(Input range from 0.01Hz to 50KHz)
- 2組警報功能(Two alarm function)(optional)
- 16 BIT 類比輸出功能(16 bit DAC analog output function)(optional)
- 數位RS-485介面(Digit RS-485 interface function)(optional)
- 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 & Higt stability)

1:MODEL:SMFTR - [ ] - [ ] - [ ] - [ ]  
(選購型號)

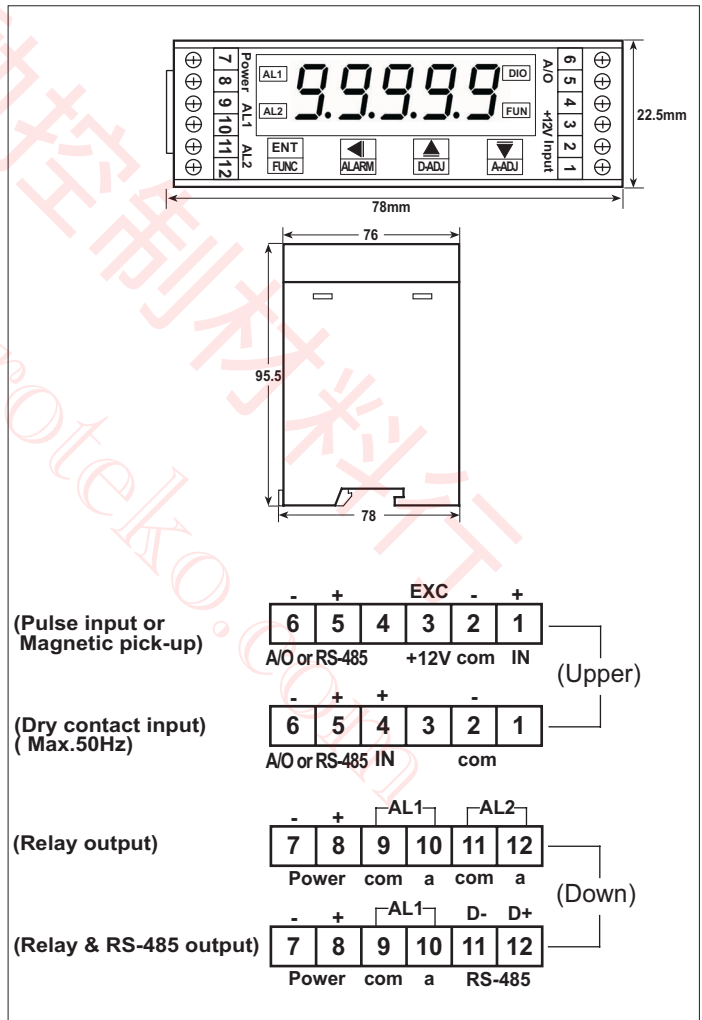
NO	Input Type	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux.Power
B	Pulse (NPN) & Dry contact	0	None	0	None	N	None	A	AC/DC18~60V
C	Pulse (PNP) & Dry contact	1	One	1	DC4~20mA	Y	RS-485	B	AC/DC90~260V
D	Magnetic pick-up(50mV~1.5V)	2	Two	2	DC0~10V	*Modbus mode *256 modes on bus		*Less 4VA for AC/DC input	
E	Magnetic pick-up(500mV~15V)	*Relay contact (AC250V-2.5A,DC30V-5A)		9	SPECIFIED	*Two-alarm output only one analog output or another RS-485 output			
F	AC2~60V	*Analog & RS-485 output only one alarm output							
O	SPECIFIED								

2:SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.03% F.S. (23±5°C)
- Count input type (脈波輸入型式) : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
- Input trigger levels (脈波觸發電位) : High level (V<sub>IH</sub>=DC4~30V) Low level (V<sub>IL</sub>=DC0~2V)
- Max.count rates (最高輸入頻率) : <50KHz (50% duty cycle) <1KHz (Magnetic pick-up) <50Hz (Switch contact)
- Sampling time (取樣時間) : 20 cycles/sec. (>20Hz)
- Readout range (顯示值範圍) : 0 to 99999 digit adjustable
- Alarm action (繼電器動作方向) : HI or Lo adjustable
- Relay contact output (繼電器容量) : AC 250V-2.5A, DC 30V-5A
- Analog output resolution (類比輸出解析度) : 16 bit DAC
- Response time (輸出反應速度) : < 250ms(0~90%)
- Output drive capability (輸出負載能力) : < 10mA for voltage mode < 10V for current mode
- Output ripple (p-p) (輸出之漣波) : < 0.1% F.S.
- RS-485 address (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Display (顯示幕) : Red high efficiency LEDs high 6.8mm (0.268")
- Parameter setting (參數設方式) : Touch switches
- Sensor power supply (感應器電源) : 12VDC±3%(<50mA)
- Memory mode (記憶方式) : Non-volatile E<sup>2</sup> PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/power/display) 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)
- 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.OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸Unit:mm與配線圖)





# 薄型類比信號隔離傳送/警報控制電驛 (SLIM TYPE ANALOG ISOLATED TRANSMITTER & CONTROLLER METER RELAY)

**MODEL SMATR**



### ■特點(FEATURES)

- 精確度0.05%滿刻度±1位數(Accuracy 0.05% F.S.±1digit)
- 可量測 交直流電流/交直流電壓/電位計/傳送器/Pt-100/熱電偶/荷重元/電阻 等信號 (Measuring DCA/DCV/ACA/ACV/Potentiometer/Transmitter/Pt-100/Thermocouple/Load Cell/Resistor/etc.....)
- 顯示範圍-19999~99999可任意規劃(Programmable rate -19999~99999 digit)
- 2組警報功能(Max. two alarm function)(optional)
- 16BIT 類比輸出功能(16 bit DAC analog output function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(optional)
- 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 & Higt stability)

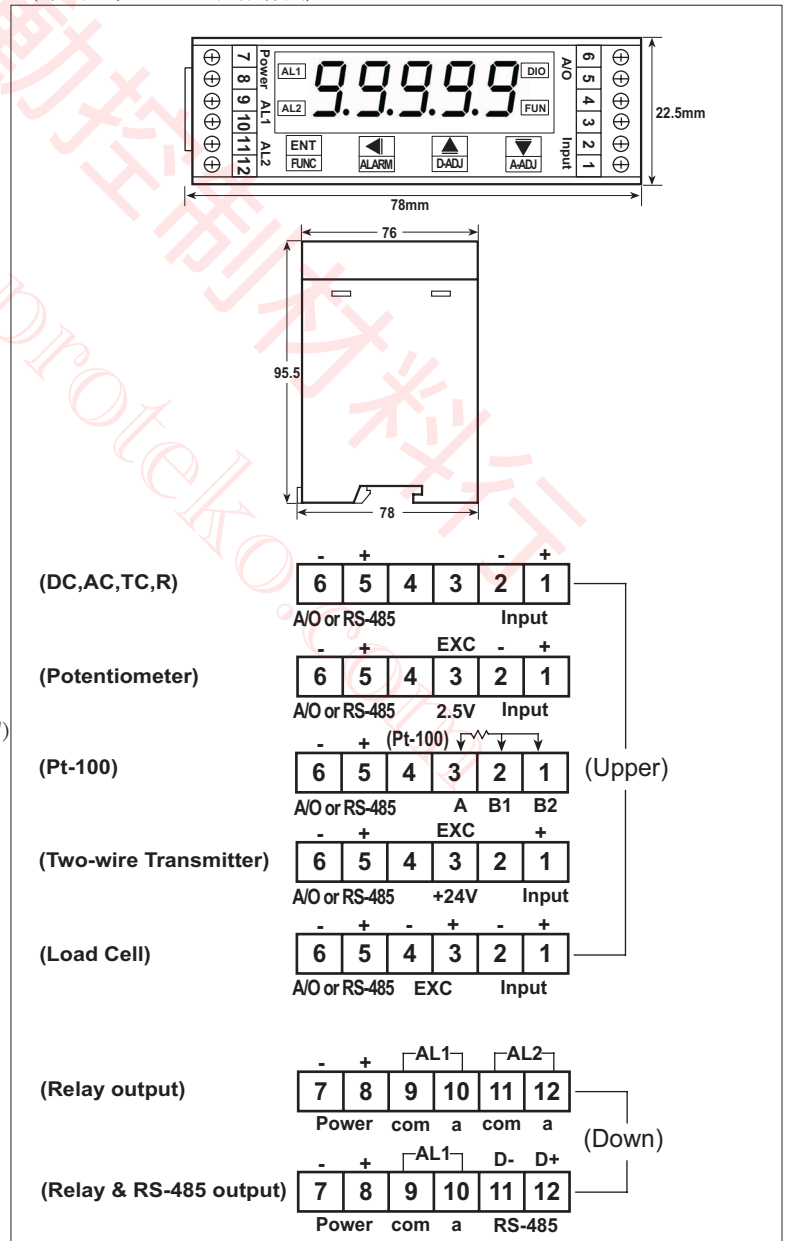
1. MODEL: SMATR - □ □ □ - □ □ □ □  
(選購型號)

NO	Input Type	NO	DCV(ACV)	NO	DCA(ACA)	NO	Transmitter	NO	Load cell	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux. Power
A	DC	11	0~50mV	21	0~19.999uA	41	DC4~20mA	61	2mV/V	0	None	0	None	N	None	A	AC/DC18~60V
B	AC(RMS)	12	0~5V	22	0~199.99uA	42	DC1~5V	62	3mV/V	1	One	1	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	AC(TRMS)	13	0~10V	23	0~1.9999mA	43	DC4~20mA	63	2mV/V	2	Two	2	DC0~10V	Y	Modbus mode		
D	Potentiometer	14	0~36V	24	0~19.999mA	44	DC1~5V	64	3mV/V			9	SPECIFIED	Y	256 modes on bus		
E	Transmitter	15	0~54V	25	0~199.99mA	49	SPECIFIED	69	SPECIFIED								
F	Pt-100(RTD)	16	0~110V	26	0~1.9999A												
G	Thermocouple	17	0~600V	27	0~5.000A												
H	Load Cell	19	SPECIFIED	29	SPECIFIED												
R	Resistor																

### 2. SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.05% F.S.±1 digit (23±5°C) 0.2% F.S.±1 digit(AC(RMS)) 0.2% F.S.±0.5°C (CIC)(Thermocouple)
- Sampling time (取樣時間) : 16 cycles/sec.
- Readout range (顯示值範圍) : -19999~99999 digit adjustable
- Alarm delay time (繼電器延遲動作時間) : 0~99.9 second adjustable
- Alarm action (繼電器動作方向) : HI or Lo adjustable
- Relay contact output (繼電器容量) : AC 250V-2.5A, DC 30V-5A
- Analog output resolution (類比輸出解析度) : 16 bit DAC
- Response time (輸出反應速度) : < 250ms(0~90%)
- Output drive capability (輸出負載能力) : < 10mA for voltage mode < 10V for current mode
- Output ripple (p-p) (輸出之漣波) : < 0.1% F.S.
- RS-485 address (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Temp. coefficient (溫度係數) : 50ppm/°C (0~50°C)
- Display (顯示幕) : Red high efficiency LEDs high 6.8mm(0.268")
- 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/output/power) 1600 Vdc (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)
- 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. OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸Unit:mm與配線圖)



# 薄型數學演算式隔離傳送/警報控制電驛

(SLIM TYPE MATH FUNCTION ISOLATED TRANSMITTER & CONTROLLER METER RELAY)

**MODEL SMMTR**



## ■特點(FEATURES)

- 精確度0.05%滿刻度±1位數(Accuracy 0.05% F.S.±1digit)
- 可作各式數學演算式功能如:A+B/A-B/AxB/A/B/A&B(Hi or Lo)/|A|/√A (Math function A+B/A-B/AxB/A/B/A&B(Hi&Lo)/|A|/√A /etc.....)
- 顯示範圍-19999~99999可任意規劃(Programmable rate -19999~99999 digit)
- 2組警報功能(Max. two alarm function)(optional)
- 16BIT 類比輸出功能(16 bit DAC analog output function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(optional)
- 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 & Higt stability)

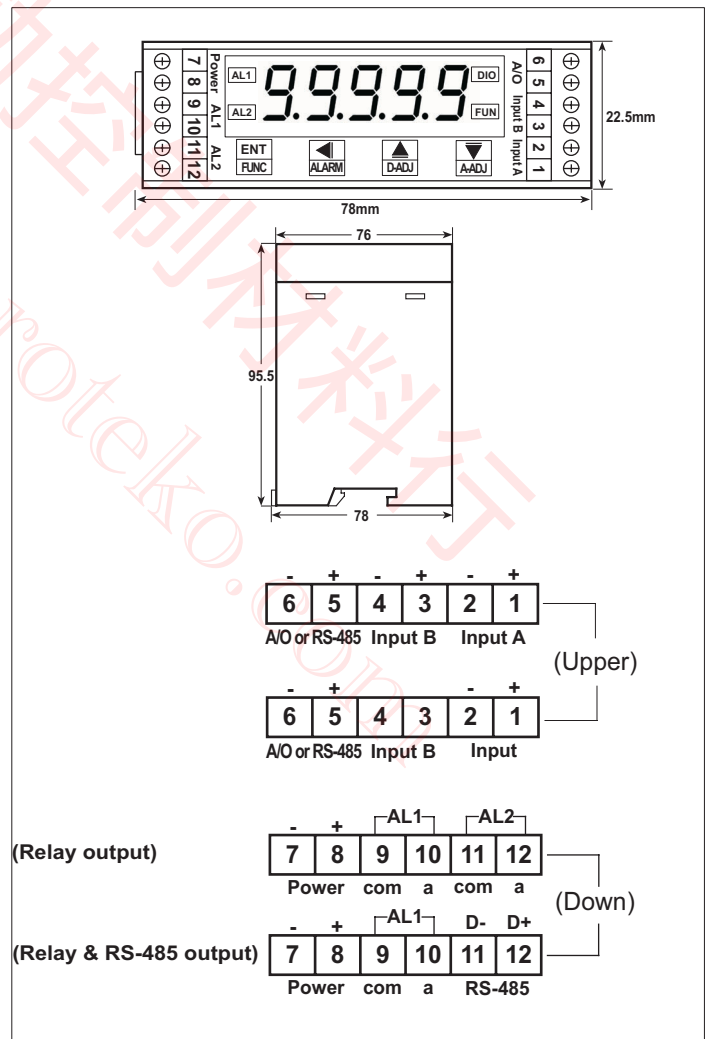
1. MODEL: SMMTR -    -     (選購型號)

NO	Input Type	NO	Input A Range	NO	Input B Range	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux.Power
A	A±B	1	DC0~50mV	1	DC0~50mV	0	None	0	None	N	None	A	AC/DC18~60V
B	AxB(A/B)	3	DC0~10V	3	DC0~10V	1	One	1	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	A&B(Hi or Lo)	5	DC-10~+10V	5	DC-10~+10V	2	Two	2	DC0~10V				
D	A	7	DC0~20mA	7	DC0~20mA	*When analog & RS-485 output, only one alarm output		9	SPECIFIED	*Modbus mode *256 modes on bus		*Less 4VA for AC/DC input	
E	√A	8	DC4~20mA	8	DC4~20mA			9	SPECIFIED				
O	SPECIFIED	9	SPECIFIED	9	SPECIFIED								

## 2. SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.05% F.S.±1 digit (23±5°C)
- Input resistance (輸入阻抗) : >100 Mohm(< 2V range) >2 Mohm(> 2V range) <100 ohm (current input)
- Sampling time (取樣時間) : 16 cycles/sec.
- Readout range (顯示值範圍) : -19999~99999 digit adjustable
- Alarm delay time (繼電器延遲動作時間) : 0~99.9 second adjustable
- Alarm action (繼電器動作方向) : HI or Lo adjustable
- Relay contact output (繼電器容量) : AC 250V-2.5A, DC 30V-5A
- Analog output resolution (類比輸出解析度) : 16 bit DAC
- Response time (輸出反應速度) : < 250ms(0~90%)
- Output drive capability (輸出負載能力) : < 10mA for voltage mode < 10V for current mode
- Output ripple (p-p) (輸出之漣波) : < 0.1% F.S.
- RS-485 address (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Temp. coefficient (溫度係數) : 50ppm/°C (0~50°C)
- Display (顯示幕) : Red high efficiency LEDs high 6.8mm(0.268")
- 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/output/power) 1600 Vdc (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)
- 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. OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸Unit:mm與配線圖)



# 薄型直流/脈波隔離傳送器

(SLIM TYPE MICROPROCESS DC TO FREQUENCY ISOLATED TRANSMITTER)

**MODEL  
SMDF**



### ■特點(FEATURES)

- 精確度0.05%滿刻度±1位數(Accuracy 0.05% F.S,±1digit)
- 多種輸入/輸出選擇(Wide selection of input/output range)
- 脈波輸出範圍0.25Hz至1KHz可任意規劃(Wide range for frequency output(0.001Hz to 1KHz))
- 輸入與輸出絕緣耐壓2仟伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output))
- 顯示範圍-19999~99999可任意規劃(Programmable rate -19999~99999 digit)
- 2組警報功能(Max. two alarm function)(optional)
- 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 & Higt stability)

### 1.MODEL:SMDF -

(選購型號)

NO	Input Range	NO	Input Range	NO	Output 1 Mode	NO	Output 2 Mode	NO	Aux.Power
1	DC0~50mV	6	DC4~20mA	P	Pulse output	N	None	A	AC/DC18~60V
2	DC0~1V	7	•DC4~20mA	R	Relay output	P	Pulse output	B	AC/DC90~260V
3	DC0~5V	9	SPECIFIED	S	SPECIFIED	R	Relay output		• Less 3VA for AC/DC input
4	DC1~5V		•Exciting DC24V(<25mA) (two-wire transmitter)		•Pulse is open-collector (Max.DC30V,<40mA)	S	SPECIFIED		
5	DC0~10V								

### 2.SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.05% F.S,±1 digit (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)
- Sampling time (取樣時間) : 16 cycles/sec.
- Readout range (顯示值範圍) : -19999~99999 digit adjustable
- Pulse output range (脈波輸出範圍) : 0.001Hz~1KHz(Relay output max.50Hz)
- Output pulse width (輸出脈波寬度) : 50% duty cycle
- Output drive capability (輸出負載能力) : Pulse output (Open-collector max.DC30V,<40mA) Relay output (AC250V-2.5A,DC30V-5A)
- Temp. coefficient (溫度係數) : 50ppm/°C (0~50°C)
- Display (顯示幕) : Red high efficiency LEDs high 6.8mm(0.268")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E<sup>2</sup> PROM memory
- Isolation (隔離特性) : Input/Output1/Output2/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) 1600 Vdc (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)
- 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.OUTSIDE DIMENSION AND CONNECTION DIAGRAM(Unit:mm)

(外型尺寸與配線圖)

