

## FEATURES :

- Aux.Power AC 85~265V or DC 85~300V
- High Accuracy 0.2%RO + 0.3°C at 23°C ± 5°C
- PC Plastic Case , DIN Rail or Wall Mounting
- High Dielectric Strength ( AC 1.5KV/Min , between Input / Output / Power )



| Input Signal |                                        | Output 1 |           | Output 2 |           | Aux. Power |               |
|--------------|----------------------------------------|----------|-----------|----------|-----------|------------|---------------|
| A            | PT 100Ω 3Wire<br>-100~400°C/-150~800°F | A        | DC 0~10mA | A        | DC 0~10mA | C          | DC 22~72V     |
|              |                                        | B        | DC 0~20mA | B        | DC 0~20mA | F          | AC/DC 85~265V |
|              |                                        | C        | DC 4~20mA | C        | DC 4~20mA |            |               |
|              |                                        | D        | DC 0~5V   | D        | DC 0~5V   |            |               |
|              |                                        | E        | DC 1~5V   | E        | DC 1~5V   |            |               |
|              |                                        | F        | DC 0~10V  | F        | DC 0~10V  |            |               |
| Y            | Other                                  | Y        | Other     | Y        | Other     |            |               |

## SPECIFICATIONS :

**Accuracy :** 0.2%RO+0.3°C at 23°C ± 5°C

**Input Impedance :** Voltage Input ≥ 1MΩ , Current Input ≤ 50Ω

**Insulation Resistance :** ≥ 100MΩ / DC 500V

**Output Load :** DC Current Mode : > 500Ω in Output 20mA , DC Voltage Mode : 10mA Maximum

**Dielectric Strength :** AC 2000V / Min , between Input / Output / Power.

**Linearity & Repeatability :** ≤ 0.1% Typical.

**Common Mode Rejection :** ≥ 120db DC to 60Hz

**Stability :** ≤ 0.2% / Year.

**Adjust Range :** SPAN & ZERO ±10%

**Response Time :** ≤ 400 mS

**Ripple :** ≤ 0.1% rms RO

**Temperature Coefficient :** ≤ 100ppm / °C From 0~60°C ; ≤ 50ppm / 25°C ± 5°C

**Operation Condition :** -5°C ~ +55°C 20~95% RH Non-Condensed.

**Storage Condition :** -10°C ~ +70°C 20~95% RH Non-Condensed.

**Power Fluctuation Rate :** Power Could Support AC / DC 85~265V or DC 24V ± 10%

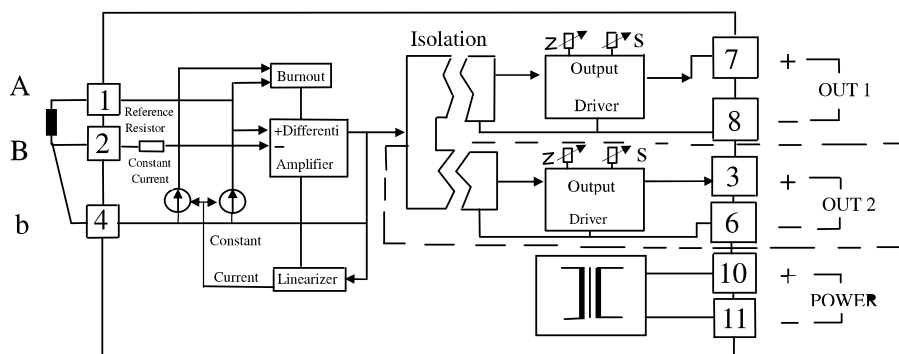
**Aux.Power Effect :** ≤ 0.03% / V

**Housing Material :** Non-Combustible PC Products, Compliance With UL 94 CLASS V-O

**Mounting :** DIN Rail or Wall Mounting

**Dimension :** 27 W × 119 H × 70 L mm (Base)

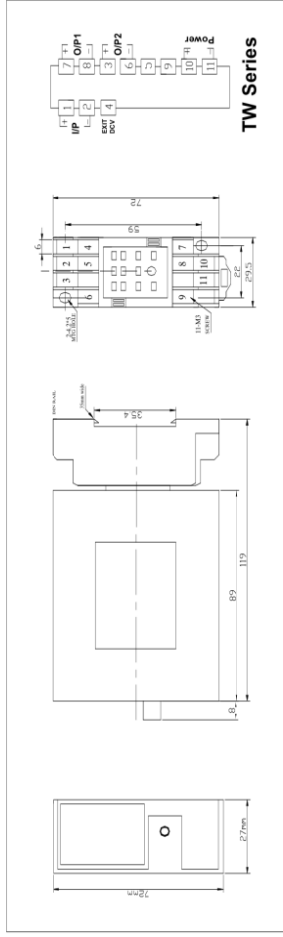
## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM :



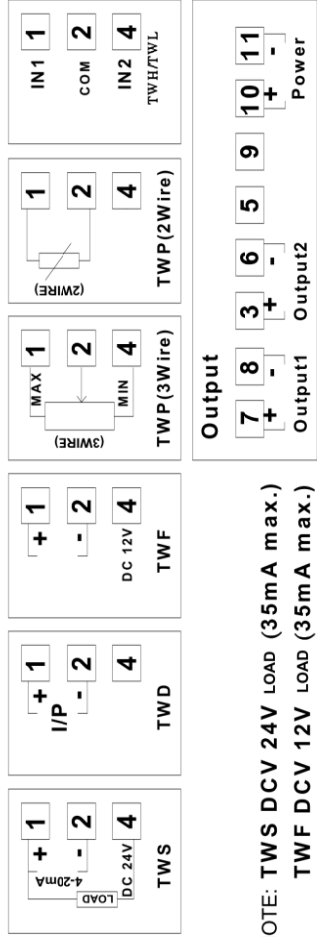
All Specifications are subject to change without prior notice.

# TW Series Transmitter Manual

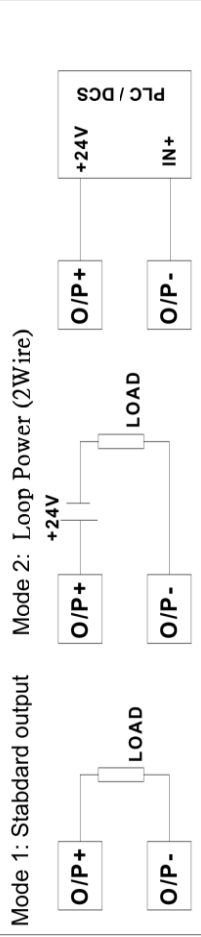
## □ Dimension / Terminal Layout / Connection Diagram



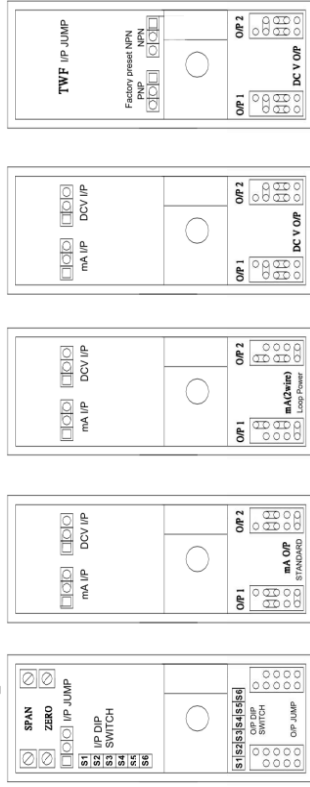
## □ Connection Diagram



## DC 4-20mA Output Modes:



## □ Jump



## □ Dip Switch Instruction

- This unit is calibrated at the factory to meet the ordered specifications , usually it doesn't need any calibration.
- After you change the dip switch , the accuracy will be  $\geq 1\%$ ,so we recommend you re-calibrate the product.
- Dip switch is only applicable to products with standard input and output signals.

| INPUT DIP SWITCH |     |     |     |     |     | OUTPUT DIP SWITCH |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|
| S1               | S2  | S3  | S4  | S5  | S6  | S1                | S2  | S3  | S4  | S5  | S6  |
| 0-20mA           | ON  | ON  | OFF | ON  | OFF | 0-20mA            | ON  | ON  | OFF | ON  | OFF |
| 4-20mA           | OFF | ON  | OFF | ON  | ON  | 4-20mA            | OFF | ON  | ON  | ON  | ON  |
| 0-5V             | ON  | ON  | ON  | OFF | OFF | 0-5V              | ON  | ON  | ON  | ON  | OFF |
| 1-5V             | ON  | OFF | ON  | OFF | ON  | 1-5V              | ON  | ON  | ON  | OFF | ON  |
| 0-10V            | ON  | ON  | OFF | ON  | OFF | 0-10V             | ON  | OFF | ON  | OFF | OFF |

## □ Calibration Instruction

Please calibrate the signal with standard signal source and follow below steps.

1. Warm up the unit for at least 10 minutes.
2. ZERO: Apply 0% input signal and adjust output to 0% of corresponding signal.  
(If input signal is 0-5V, 0-10V or 0-20mA, please apply 10% input signal to calibrate )
3. SPAN: Apply 100% input signal and adjust output to 100% of corresponding signal.

## □ Maintenance

1. Warm up the unit for at least 10 minutes.
2. Apply 0%, 25%, 50%, 75% and 100% input signal and check the corresponding output signal respectively.
3. If the output accuracy is out of the range, please calibrate the product referring to above calibration instruction.