

# ST8 SERIES INTELLIGENT TEMPERATURE SENSOR SPECIALTIES DIGIT DISPLAY METER

## 1. Panel



Features :

T/C or RTD inputs selected by software.

T/C : R, S, T, B, K, J, E, etc.

RTD : Pt100, Cu50, Cu100, etc.

Can be widely applied to chemical, roleum, power, pharmacy, and metallurgy to measuring and displaying temperature

NO	Panel	Specification
1	LED	Up: measuring value / parametar code display
2	LED	Down : parametar value / input code display
3	◀	Shift key
4	▼	Decrease key
5	▲	Increase key
6	SET	

Input signal selection

Input signal	Measuring range (°C)	Input impedance
K	0.0~1200	>2MΩ
J	0.0~1200	>2MΩ
E	0.0~1000	>2MΩ
T	-150~400.0	>2MΩ
S	0~1700	>2MΩ
R	0~1750	>2MΩ
B	250~1820	>2MΩ
Pt100	-199~600	0.2mA
Cu50	-50.0~150.0	0.2mA
Cu100	-50.0~150.0	0.2mA

## 2. Parameters

2.1. Input signals T/C, R, S, T, B, E, K, J, Pt100, Cu50, Cu100 selected by software

2.2. Accuracy  $\pm 0.5\%FS \pm 2$ digit.

2.3. Power supply: 85~260V AC/DC, consumption less than 5VA

2.4. Ambient Temperature : 0~50 (°C)

2.5. Insulation impedance DC5000V  $\geq 100M\Omega$

## 3. Ordering code

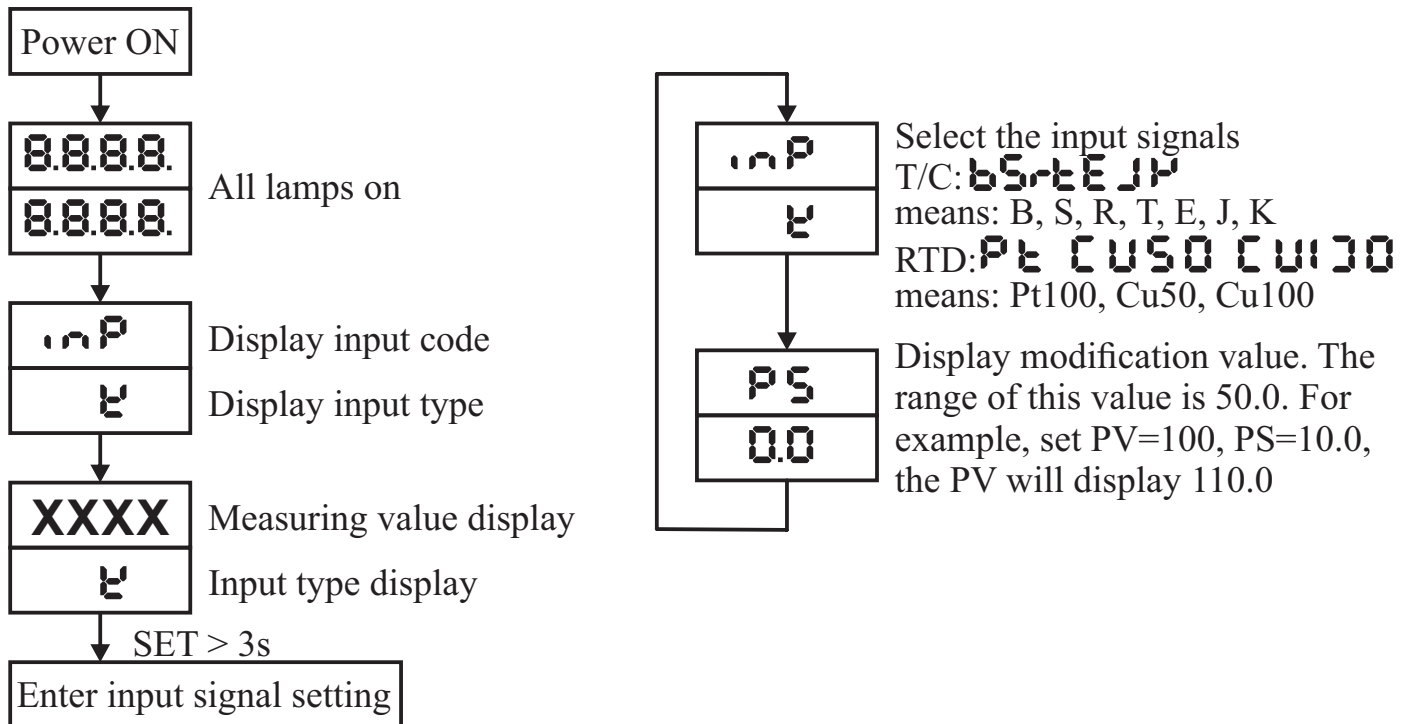
ST8 □ - □ — T: input signal: T/C: R, S, T, B, E, K, J  
 RTD: Pt100, Cu50, Cu100  
 A: other special input  
 Power supply: Blank:80~260VAC/DC, F:24VDC  
 Size: 8: 96Wx48Hx100L  
 ST series

## 4. Key operation instruction

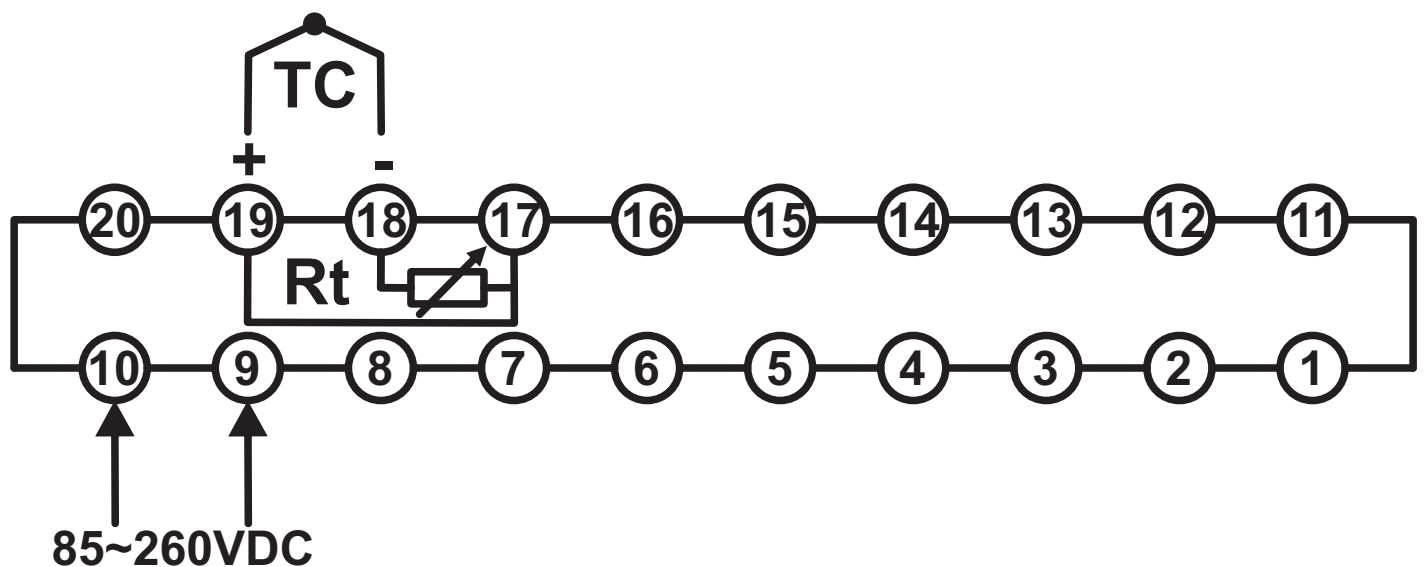
- 4.1. Press SET key more than 3 seconds to enter input signals selection menu.  
 You can chose InP or PS. Press ◀ key to shift of the digit to be modified  
 LED flashes, press ▲/▼ key to modify, the press SET key to confirm.
- 4.2. The unit will return to measuring estate without key operation for 25 seconds.

## 5. Operation procession

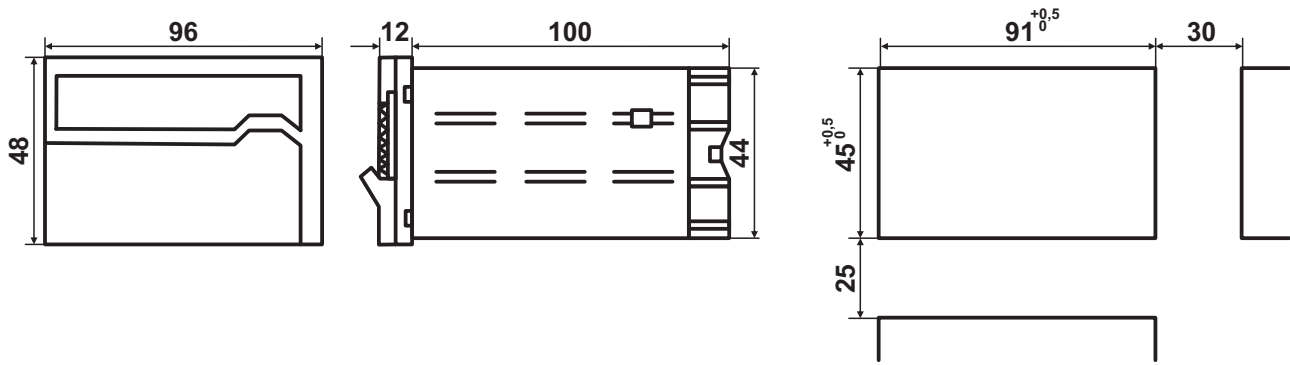
Power supply and self-examination



## 6. Connection



## 7. Dimesions



## 8. Malfunction indication

Information	Specification	Elimination
□□□□	Not connect sensor or input signal too low	Check and connect the sensor correctly
□□□□	Not connect sensor or input signal too high	Check and connect the sensor correctly
□□□	T/C sompensation fail or over range	Check the wires if they are connected correctly

## 9. Examples for usage:

1. The unit must be heated for 15 minutes with power on before use.
2. Use in ambient temperature 0~50 °C, humidity less than 85% R.H.
3. The unit alignment interval time one year
4. Avoid vibrations or shock, excessive dust, corrosive chemical materials or gas.
5. If the input signal is super imposed with high-frequency noise, use low-passed filter,
6. Input wire should not be long. If measured signal have to be far away from the unit, please use 2-core shielded cable, and connect its shield to the LO side of the signal source.
7. If the input won` t be used for a long time, connect power supply every three months, not les than 4 hour each time.
8. Long time for storing the unit should be in the shade, with temperature of -10 to 70°C, humidity less than 60%. Don` t contact with organic solvents or oils.