

## TT-210

## Head mount smart temperature transmitter



### General Features:

- Universal input, support RTD:Pt100, Cu50, Cu100  
Thermocouple:K,J,E,T,S,R,B,N,  
PT1000 and WRe needs to be custom made
- 2 wires 4-20mA output
- Input configurable via **PC software** and **android smart phone**
- Built-in cold junction compensation
- Can be installed in Form B connection box
- High accuracy, 0.1% for RTD, 0.2% for TC
- USB cable for configuration purpose can draw power from PC directly  
separate 24VDC power source is no need
- Surge protection, reverse connection protection

 *The configuration can be done via software from PC or from android smart phone*

### Ordering Information

**TT-210** (General version, input/output non-isolation)  
You can configure the input and range using PC or android smart phone

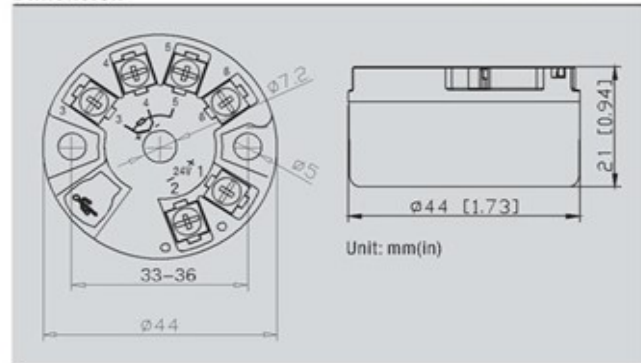
### General Specifications

Item No	TT-210
Sensor type	PT100,Cu50,Cu100,K,J,E,T,S,R,B,N,PT1000 and WRe needs to be custom made
Cold end junction compensate range	-40°C~ + 80°C
Compensate accuracy	±1°C
Output	4-20mA
Load resistance	$RL \leq (U_e - 12)/0.021$
Over range alarm value	IH=20.8mA, IL=20.8mA
Input break output current value	21mA
Power supply	12-35VDC
Accuracy(ambient 20°C)	0.1% F.S for RTD, 0.2% F.S for TC
Temperature drift	0.01% F.S/°C
Response time	1ms to 90% of maximum output
Input/output isolation strength	Non-isolation
Input/output impedance	Non-isolation
EMC standard	IEC 61326-1
Working temperature	-40°C~ + 80°C
Mounting screw	M4*2

### Input signal and range

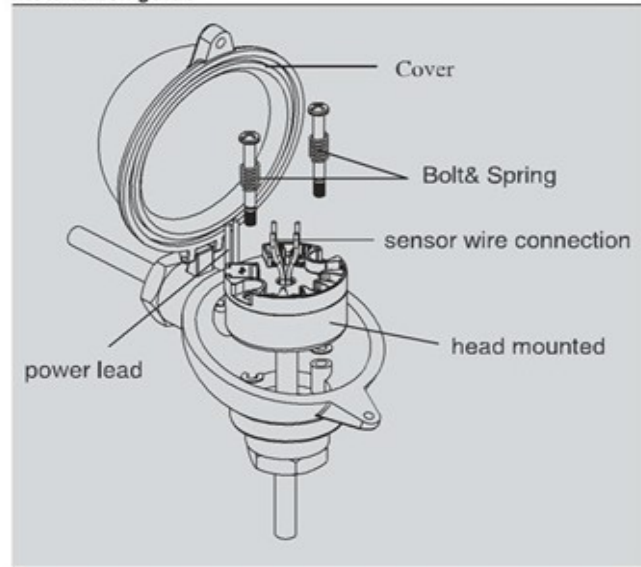
Sensor type	Specific sensor type	Measuring range	Minimum measuring range
RTD	Pt100	-200.0~ 850.0°C	10°C
	Cu50	-50.0~ 150.0°C	10°C
	Cu100	-50.0~ 150.0°C	10°C
TC	B	400~ 1800°C	500°C
	E	-100~ 1000°C	50°C
	J	-100~ 1200°C	50°C
	K	-180~ 1372°C	50°C
	N	-180~ 1300°C	50°C
	R	-50~ 1760°C	500°C
	S	-50~ 1760°C	500°C
	T	-200~ 400°C	50°C
Need to be custom made	Wre3-25	0~ 2315°C	500°C
	Wre5-26	0~ 2310°C	500°C
	Pt1000	-200.0~ 850.0°C	10°C

### Dimension



### Technical Specifications

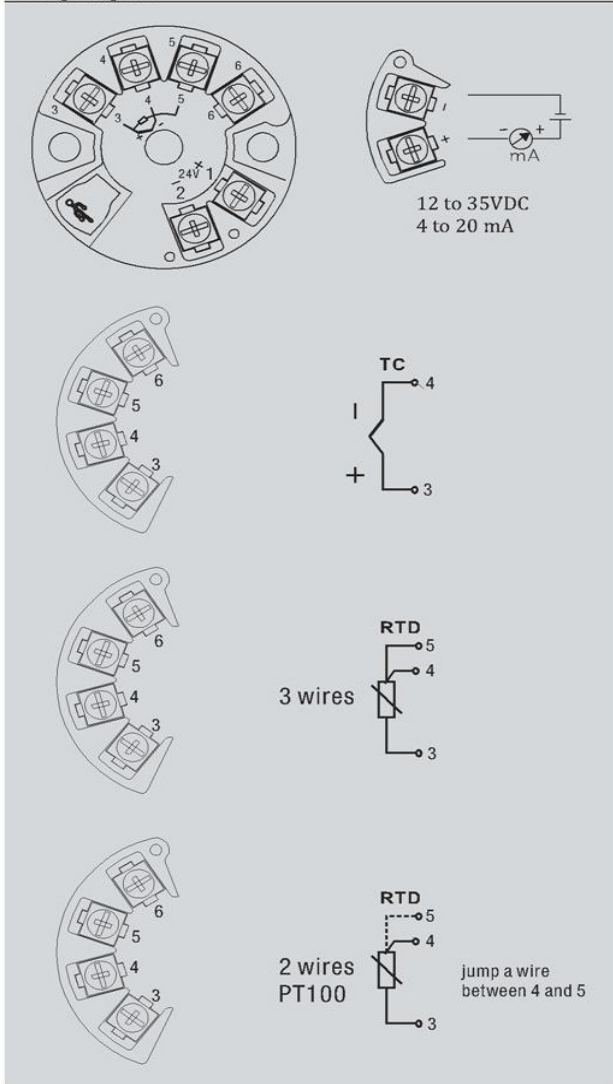
### Installation guide



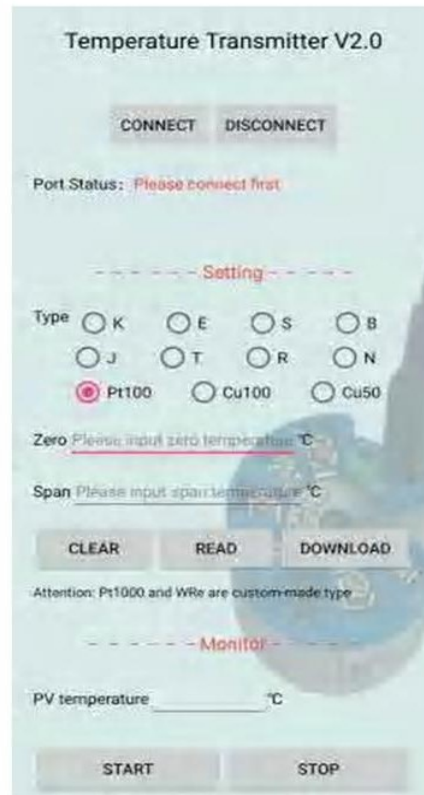
**TT-210**

**Head mount smart temperature transmitter**

**Wiring diagram**



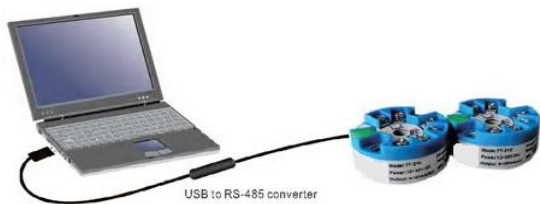
PC configuration software interface



Android OS system configuration software interface

**Configuration guidelines**

The configuration can be done via PC and android smart phone.



**ELTEC CABLES & INSTRUMENTS**

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