Power: 12~40V DC
Output: 4~20mA(dc)

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

5331A-S (General version, input/output non-isolation)
You can configure the input and range using PC or android smart phone
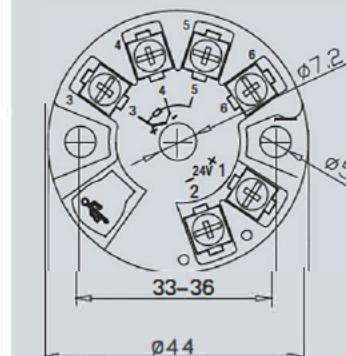
General Specifications

Item No	5331A S
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℃~+80℃
Compensate accuracy	±1℃
Output	4-20mA
Load resistance	$RL \leq (Ue-12)/0.021$
Over range alarm value	IH=20.8mA, IL=20.8mA
Input break output current value	21mA
Power supply	12-35VDC
Accuracy(ambient 20℃)	0.1% F.S for RTD, 0.2% F.S for TC
Temperature drift	0.01% F.S/℃
Response time	1ms to 90% of maximum output
Input/output isolation strength	Non-isolation
Input/output impedence	Non-isolation
EMC standard	IEC 61326-1
Working temperature	-40℃~+80℃
Mounting screw	M4*2
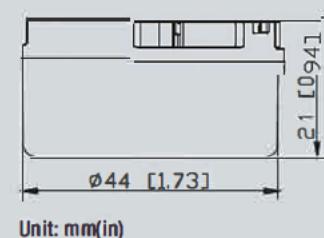
Input signal and range

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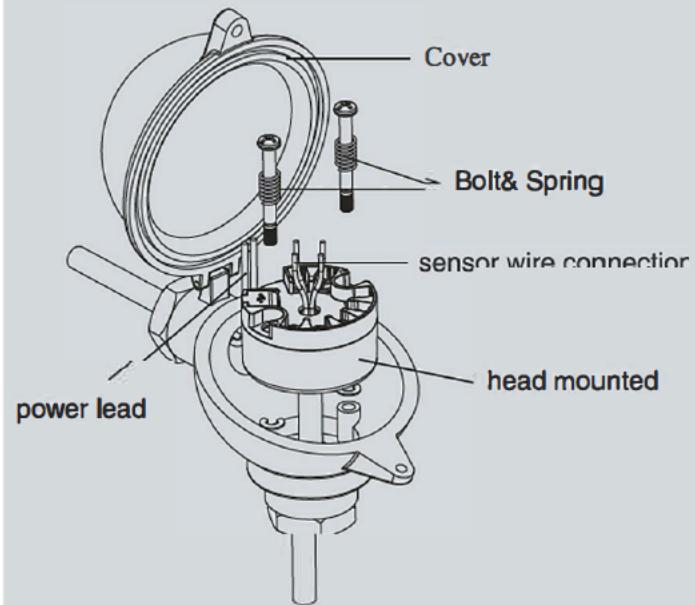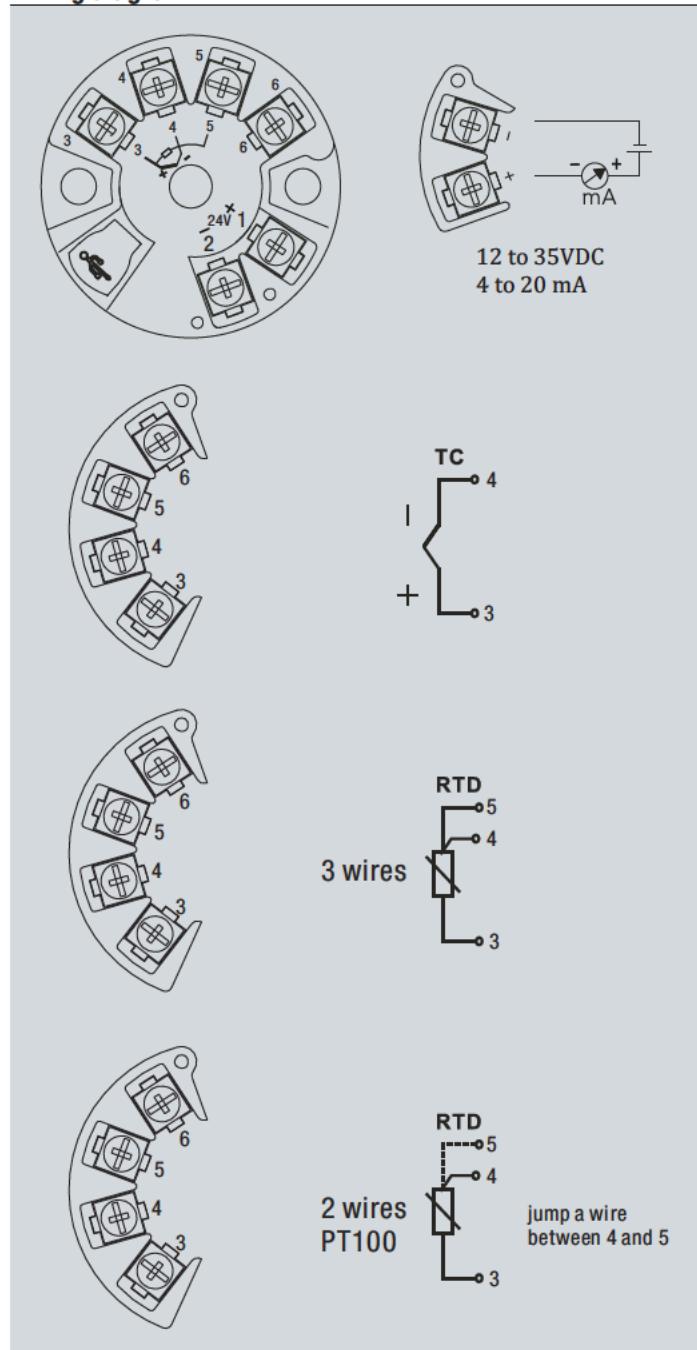
Technical Specifications

Dimension

Unit: mm(in)

Installation guide

Cover
Bolt& Spring
sensor wire connection
head mounted
power lead

Wiring diagram

12 to 35VDC
4 to 20 mA

TC

RTD
3 wires

RTD
2 wires
PT100

jump a wire
between 4 and 5

PC configuration software interface

Temperature Transmitter V2.0

CONNECT   DISCONNECT

Port Status: Please connect first

- - - - - Setting - - - - -

Type ○ K   ○ E   ○ S   ○ B
      ○ J   ○ T   ○ R   ○ N
      ● Pt100   ○ Cu100   ○ Cu50

Zero Please input zero temperature ℃

Span Please input span temperature ℃

CLEAR   READ   DOWNLOAD

Attention: Pt1000 and WRe are custom-made type

- - - - - Monitor - - - - -

PV temperature _____ ℃

START   STOP

Android OS system configuration software interface

Configuration guidelines

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

USB to RS-485 converter

Connect the transmitter with PC using the programming cable provide by Maxwell, please noted that this is a custom made programming cable, do not use other cable otherwise the transmitter will be damaged. Please goes to our website and check our video tutorial on how to use our PC configuration software