

Safety Information

- To avoid possible electric shock or personal injury:
- Never apply more than 30V between any two jacks, or between any jack and earth ground.
 - Make sure the battery door is closed and latched before you operate the calibrator.
 - Remove test leads from the calibrator before you open the battery door.
 - Do not operate calibrator if it is damaged.
 - Do not operate the calibrator around explosive gas, vapor, or dust.
 - To avoid possible damage the calibrator:
 - Make sure choose the right jack and rang, before use the calibrator to measurement or calibrator.
 - Take away the calibrator from the used circumstance, before operate the calibrator or after close the calibrator.



Maintenance

- Cleaning**
- Periodically wipe the case with a damp cloth and detergent; do not use abrasives or solvents.
- Calibration**
- Calibrate your calibrator once a year to ensure that it performs according to its specifications.
- Replacing the Battery**
- Please change the battery when the LCD indicates . Turn off the power of the Calibrator, When you change the battery, and screw off the breechblock on the battery cabinet cover, then take off it and instead the fresh AAA 1.5V battery.

OPERATING MANUAL

RTD Process Calibrator



- Measure or simulate RTD and Resistance
- 7 type of RTD
Pt10 50 100 200 500 1000/385
Pt100/JIS
- 4Wire/3Wire/2Wire mode input and output



admit excitation current: 0.2mA. MAX input voltage: 30V.

Admit excitation current only apply on simulate mode. The admit excitation current could be marked on the OHM

Range	Measure accuracy 4W ± Ω	Simulate accuracy ± Ω	admit excitation mA	Measure (input)/Simulate (output) Resistance specification	
				1	2
1500.0Ω ~ 3200.0Ω	0.5	0.1	0.1 ~ 0.5	1	0.05 ~ 0.4
400.0Ω ~ 1500.0Ω				0.5	0.05 ~ 0.8
400.00Ω ~ 0.00Ω	0.1	0.15	0.5 ~ 3.0	0.1	0.05 ~ 0.8
0.00Ω ~ 400.00Ω				0.5	0.05 ~ 0.8

All the specification will under 1 year calibration cycle and temperature between 18~28℃, except addition explain.

Specification

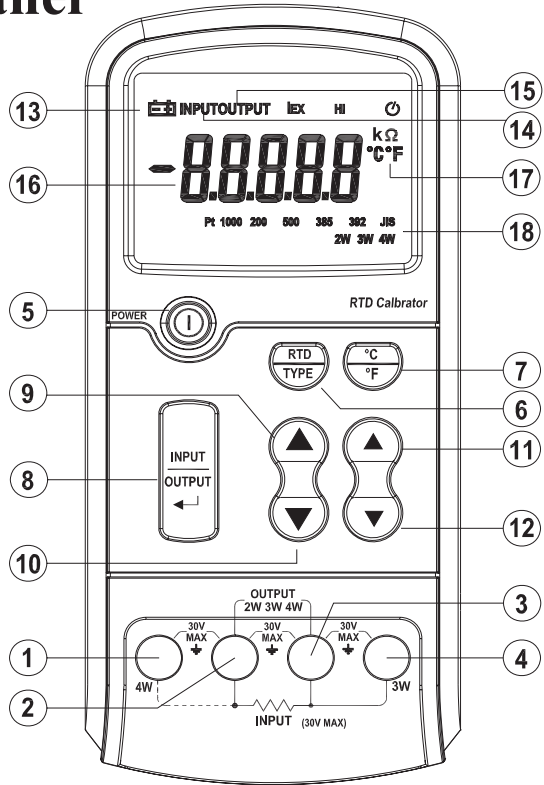
RTD Process Calibrator User's Manual

RTD Process Calibrator User's Manual

Explanation on Front Panel

The front panel is show as in right figure:

- 4wire input jack (NC on output)
- 2wire input/output jack
- 2wire input/output jack
- 3wire input jack (NC on output)
- Power key
- RTD mode key
- ℃/ℱ key
- Input/Output key
- Increase more value key/wire mode select
- Reduce more value key/wire mode select
- Increase less value key
- Reduce less value key
- Low power indication
- Input state indication
- Output state indication
- Reading value
- Unit indication
- Mode indication



International Symbols

RTD Process Calibrator User's Manual

Symbol	Meaning
	Earth ground
	Conforms to European Union directives
	Refer to this instruction sheet for information about this feature.
	Battery
	Double insulation

General Specifications:

RTD Process Calibrator User's Manual

Maximum voltage applied between any jack and earth ground or between any tow jack: 30V
Resolution: RTD 0.1℃/ℱ Resistance 0.01/0.1Ω

Storage temperature: -40℃ ~ 60℃

Operating temperature: -10℃ ~ 55℃

Operating altitude: 3000 meters maximum

Temperature coefficient: ±0.01%/℃ on 0℃~18℃ and 28℃~50℃

Relative humidity: 95% up to 30℃, 75% up to 40℃, 45% up to 50℃, 35% up to 55℃

Shock: Random 2g, 5Hz to 500Hz

Safety: 1 meter drop test

Power requirements: 6 x AAA 1.5V Battery

Size: 205mm×98mm×46mm

Weight: 472 g (include battery)

RTD Process Calibrator User's Manual

Introduction

RTD Process Calibrator is a exactitude measurement and source in strument, it can be use to calibrate the RTD* transmitter (include most impulse transmitter).

RTD Process Calibrator can measure or simulate 7 difference types of RTD (℃ or ℱ), and measure or simulate the Resistance. But it could not use to measurement or source at a same time.

The accessories: 2 pair of test lead and alligator clip, 6 * AAA 1.5V battery, user's manual.

If the Calibrator is broken or short of some accessories, please contact the supplier.

The following table has showed the technical parameter and function of the Calibrator.

* RTD Resistance Temperature Detector

* The number in the □, referring to the "Explanation on Front Panel" (Page7)

RTD Process Calibrator User's Manual

RTD Simulate

- Press the power key , turn on the calibrator.
- Press the Input/Output key . When on the output mode.
- Press RTD mode key , on the measure type you want.
- Press the adjust value key , to let the value on your need.
- Put the RTD meter or Resistance meter on the input jack.
- If you want to output with 3W/4W mode, put the other wire on the 2wir jack like the left picture.
- If you want to change the output value, then press the adjust value key , or change to other RTD type use the RTD mode key .

