

TI1200 Precision DC Resistance Calibrator



1. Summary

TI1200 is a high-precision DC resistance source with wide range, it is applied for calibrating ohmmeter on-site, e.g, industrial production lines, etc.

2. Features

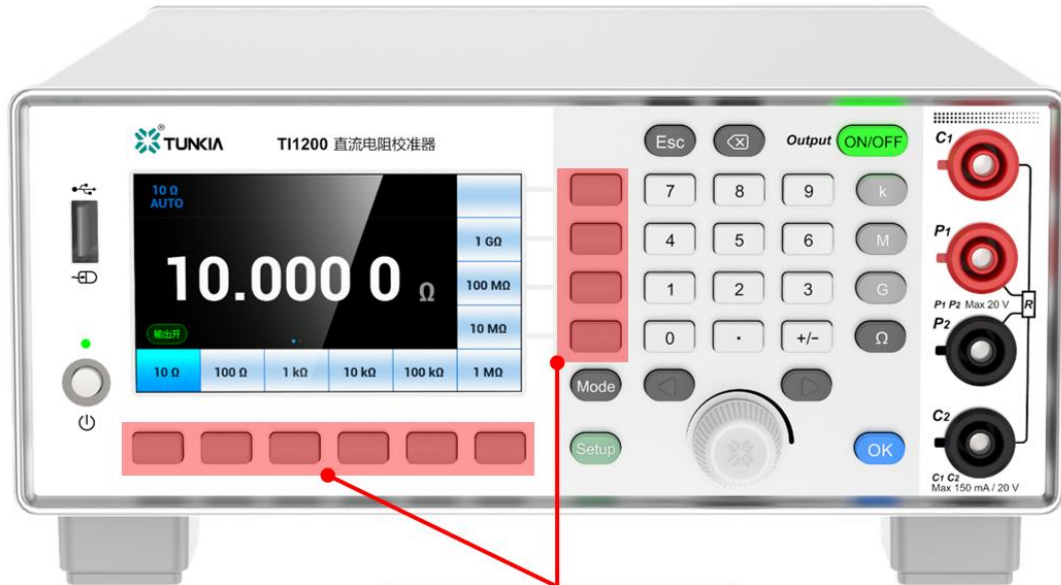
- Resistance Output: 0 Ω ~ 1100 M Ω
- Accuracy: 50 ppm
- Shortcut output keys
- Programmable calibration schemes
- RS232, LAN and USB communication interfaces

3. Application

- Calibrate DC resistance meters
- Calibrate digital multimeters
- Calibrate DC bridges, microhmmeters.

4. Features

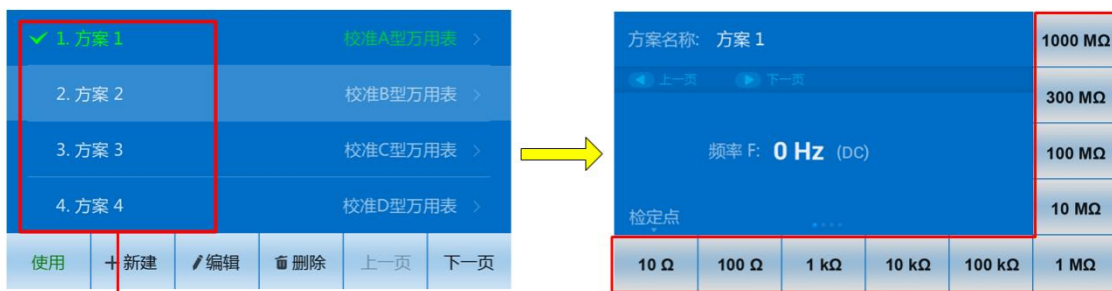
☆ Convenient Operation



shortcut keys ×10

- The front panel has 10 shortcut keys that can output the corresponding value on the screen with one key.

☆ Calibration Scheme Setting



Multiple calibration schemes

10 calibration points

- Multiple calibration schemes can be edited and stored for the calibration of multimeter with different specifications.

5. Specifications

Range	Resistance Output	Resolution	Accuracy $\pm(\text{ppm} \times \text{output} + \Omega)$	Allowable Current
10 Ω	0 Ω ~ 11.00000 Ω	10 $\mu\Omega$	50 + 0.01	1 mA ~ 150 mA
30 Ω	10.00000 Ω ~ 33.00000 Ω	10 $\mu\Omega$	40 + 0.015	1 mA ~ 150 mA
100 Ω	30.0000 Ω ~ 110.0000 Ω	100 $\mu\Omega$	35 + 0.015	1 mA ~ 80 mA
300 Ω	100.0000 Ω ~ 330.0000 Ω	100 $\mu\Omega$	35 + 0.02	1 mA ~ 40 mA
1k Ω	0.300000 k Ω ~ 1.100000 k Ω	1 m Ω	35 + 0.02	1 mA ~ 20 mA
3 k Ω	1.000000 k Ω ~ 3.300000 k Ω	1 m Ω	35 + 0.15	0.1 mA ~ 6 mA
10 k Ω	3.00000 k Ω ~ 11.00000 k Ω	10 m Ω	35 + 0.15	0.1 mA ~ 2 mA
30 k Ω	10.00000 k Ω ~ 33.00000 k Ω	10 m Ω	35 + 2	10 μA ~ 0.6 mA
100 k Ω	30.0000 k Ω ~ 110.0000 k Ω	100 m Ω	35 + 3	10 μA ~ 0.2 mA
300 k Ω	100.0000 k Ω ~ 330.0000 k Ω	100 m Ω	40 + 30	1 μA ~ 60 μA
1 M Ω	0.300000 M Ω ~ 1.100000 M Ω	1 Ω	40 + 30	1 μA ~ 20 μA
3 M Ω	1.000000 M Ω ~ 3.300000 M Ω	1 Ω	50 + 300	0.25 μA ~ 6 μA
10 M Ω	3.00000 M Ω ~ 11.00000 M Ω	10 Ω	200 + 500	0.25 μA ~ 2 μA
30 M Ω	10.00000 M Ω ~ 33.00000 M Ω	10 Ω	400 + 5000	25 nA ~ 600 nA
100 M Ω	30.0000 M Ω ~ 110.0000 M Ω	100 Ω	1000 + 6000	25 nA ~ 200 nA
300 M Ω	100.0000 M Ω ~ 330.0000 M Ω	100 Ω	5000 + 200000	2.5 nA ~ 60 nA
1000 M Ω	300.000 M Ω ~ 1100.000 M Ω	1 k Ω	20000 + 600000	1 nA ~ 20 nA

- Output range: 0 Ω ~ 1100 M Ω , 7 digits display.
- Adjustment fineness: 0.002%*RG.
- Manual or automatic range switch.
- Four-terminals or Two-terminals.
- Reverse connect protection, Overload protection

6. General Specifications

Power Supply	AC (220±22) V, (50±2) Hz
Maximum Power Consumption	100 VA
Warm-up Time	Twice the time since last warmed up, to a maximum of 30 minutes.
Temperature Performance	0°C ~ 55°C, 30%R·H ~ 80%R·H, non-condensing
Humidity Performance	-30°C ~ 70°C, 10%R·H ~ 90%R·H, non-condensing
Communication Interface	USB×1、LAN×1、RS232×1
Dimensions	215 mm (width) x 252 mm (depth) x 88 mm (height), excluding feet.
Display	3.5-inch color LCD
Weight	About 5 kg