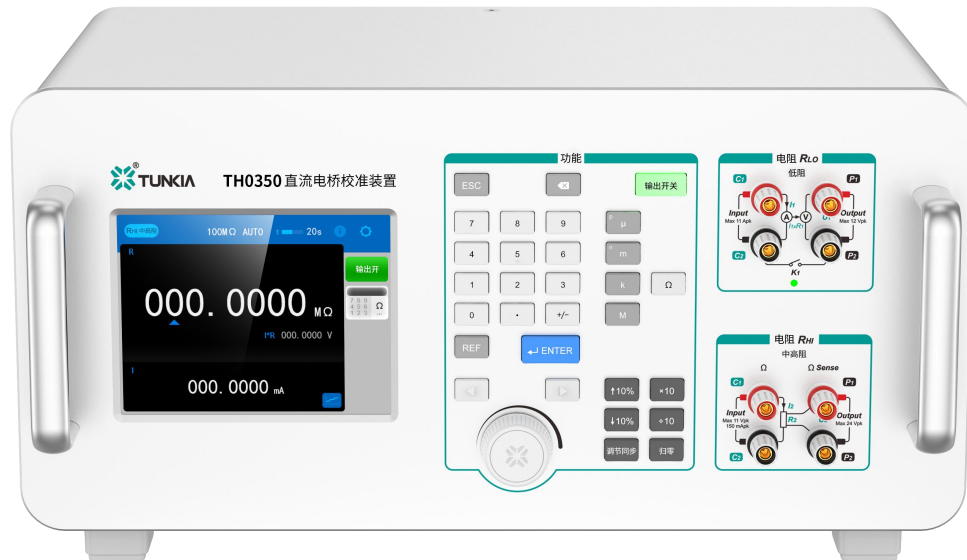


TH0350 DC Bridges Calibrator



1. Summary

TH0350 is DC bridges calibrator that can accurately simulate a wide range of DC standard resistances. It can verify and calibrate single-arm bridges, double-arm bridges, high-precision DC resistance meters and digital micro-ohmmeters.

2. Features

- DCI Measurement: 1 mA~11A
- Analog Resistance Range: 100 $\mu\Omega$ ~11 M Ω
- Uncertainty: 50 ppm
- Adjustment Fineness: 5n Ω
- 2-wire or 4-wire Resistance Mode
- There is no residual resistance of the transfer switch and contact resistance.
- LCD Touch Screen

3. Application

- Calibration of Class 0.02 and below single and double arm bridges (e.g. QJ44, QJ42, QJ57)
- Calibration of Class 0.02 and below DC resistance meter
- Calibration of Class 0.02 and below temperature measuring bridge

4. Specifications

4.1 Low Value Resistor Simulation

Range	Fineness Adjustment	Measurement Uncertainty (k=2, Ppm*Rd+Mω) ^[1]			Input Current ^[2]
		24h (23 ± 1)°C	90days (23 ± 5)°C	1year (23 ± 5)°C	
1 mΩ	5 nΩ	40 + 0.5	60 + 0.5	80 + 0.5	1 A~10 A
10 mΩ	50 nΩ	40 + 1	60 + 1	80 + 1	0.5 A~5 A
100 mΩ	500 nΩ	25 + 3	40 + 3	50 + 3	0.3A ~5 A
1 Ω	5 μΩ	25 + 10	40 + 10	50 + 10	0.05 A~5 A
10 Ω	50 μΩ	25 + 100	40 + 100	50 + 100	10 mA~300 mA
100 Ω	500 μΩ	25 + 1000	40 + 1000	50 + 1000	1 mA~30 mA

Note [1]: RD is the reading value, the same below;

[2] When the current and resistance exceed the range, the resistance value will bring additional error

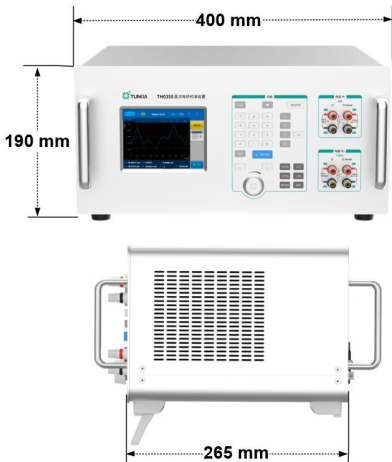
- Resistance Simulation Range: (10%~110%)*RG, 7-digit display
- Wiring Method: 4-wire
- Current Input Range: 1 mA ~ 11 A
- Range Switching: manual/automatic shifting

4.2 Medium and High Value Resistance Simulation



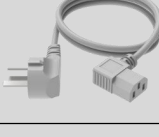

Range	Fineness Adjustment	Measurement Uncertainty ($k=2$, $\text{ppm} \cdot \text{RD} + \Omega$)			Input Current
		24h (23 ± 1)°C	90days (23 ± 5)°C	1year (23 ± 5)°C	
100 Ω	500 $\mu\Omega$	12 + 0.002	20 + 0.002	25 + 0.002	1 mA~80 mA
300 Ω	1.5 m Ω	12 + 0.003	20 + 0.003	25 + 0.003	1 mA~60 mA
1 k Ω	5 m Ω	12 + 0.01	18 + 0.01	20 + 0.01	1 mA~12 mA
3 k Ω	15 m Ω	12 + 0.03	18 + 0.03	20 + 0.03	0.1 mA~4 mA
10 k Ω	50 m Ω	12 + 0.1	18 + 0.1	20 + 0.1	0.1 mA~2 mA
30 k Ω	150 m Ω	12 + 0.3	18 + 0.3	20 + 0.3	10 μA ~400 μA
100 k Ω	500 m Ω	15 + 1	24 + 1	30 + 1	10 μA ~200 μA
300 k Ω	1.5 Ω	17 + 3	28 + 3	35 + 3	1 μA ~40 μA
1 M Ω	5 Ω	17 + 10	28 + 10	35 + 10	1 μA ~20 μA
3 M Ω	15 Ω	30 + 30	48 + 30	60 + 30	0.25 μA ~4 μA
10 M Ω	50 Ω	65 + 100	110 + 100	130 + 100	0.25 μA ~2 μA



- Resistance Simulation Range: (10%~110%)*RG, 7-digit display
- Wiring Method: 4-wires /2-wires
- Current Input Range: 250 nA ~ 80 mA
- Range Switching: manual/automatic shifting

5. General Specifications

Power Supply	AC (220 ± 22) V, (50 ± 2) Hz;
Warm-up Time	Not less than 1 hour, and the warm-up time again after shutting down in the middle should not be less than 2 times the shutdown time;
Maximum Power Consumption	150 VA
Temperature Performance	Working temperature: 18 °C ~ 28 °C; Storage temperature: -10 °C ~ 50 °C;
Humidity Performance	Working humidity: (20% ~ 80%) R·H, non-condensing; Storage humidity: < 85% R·H, no condensation;
Altitude	< 3000 m
Weight	About 10 kg
Communication Interface	RS 232、USB、IP
Dimension	400 mm (W) × 265 mm (D) × 190 mm (H) (without feet and handles)
	

8. Accessories List

NO.	Picture	Name	Specification	Quantity	Remark
1		High Value Resistance Test Leads	6 in 1, 0.8m-Φ4 gun socket-Φ4 gun socket	1	Standard Accessory
2		Universal Serial Cable	1.8m / USB to RS232 (DB9 socket)	1	Standard Accessory
3		power Cable	AC 220V、10A	1	Standard Accessory
4		Packaging Box	Aluminum Alloy Box	1	Standard Accessory

NO.	Picture	Name	Specification	Quantity	Remark
1		Calibration Software	Card USB	1	Optional Accessory
2		Packaging Box	Pelican	1	Optional Accessory

Note: The above optional accessory need to be purchased separately and specified in the order contract.