TH0260 Precision Resistance Analyzer

1. Summary

TH0260 is a measuring instrument used to analyze the characteristics of DC precision resistance. It's applied for resistance manufacturers to perform detailed performance analysis.

2. Features

- TH0260-L (low value):

  Maximum current output: 100 A, maximum voltage test: 20 V.

  Measuring range: 100 μΩ ~ 10 kΩ (customizable).

- TH0260-L (high value):

  Maximum current test: 100 mA, maximum voltage output: 1000 V.

  Measuring range: 100 Ω ~ 1 GΩ (customizable).

- Uncertainty of measurement：3 ppm (typical value).
- Short-term overload, long-term life, power factor, thermoelectric force.
- Fast /Precise measurement Mode.
- LCD touch screen.
- Statistical analysis.
- Front Panel or RS232 interface.
- Dedicated software(optional).

3. Specifications (TH0260-L)

3.1 Resistance measurement

Resistance Measurement Range		Measurement Accuracy (k=2)(± ppm)	
Minimum	Maximum	Typical	Maximum
0.1 mΩ	1 mΩ	10	30
1 mΩ	10 mΩ	5	15
10 mΩ	100 mΩ	3	10
100 mΩ	1 Ω	3	10
1 Ω	10 Ω	3	10
10 Ω	100 Ω	3	10
100 Ω	1 kΩ	3	10
1 kΩ	10 kΩ	5	20

3.2 Test capability

Resistance	Maximum current (A)	Maximum voltage (V)	Maximum power (W)
0.1 mΩ	100	10 m	1
1 mΩ	100	100 m	10
10 mΩ	100	1	100
100 mΩ	30	3	90
1Ω	3	3	9
10 Ω	2	20	40
100 Ω	200 m	20	4
1 kΩ	20 m	20	400 m
10 kΩ	2 m	20	40 m

- 4 terminal
- Current output range: 2 mA ~ 100 A.
- Current ≤ 2A, maximum load capacity is 20 V;

  Current ＞ 2 A, maximum load capacity is 3 V.

4. Specifications(TH0260-H)

4.1 Resistance measurement

Resistance Measurement range		Measurement Accuracy (k=2)(± ppm)	
Minimum	Maximum	Minimum	Maximum
100 Ω	1 kΩ	3	10
1 kΩ	10 kΩ	3	10
10 kΩ	100 kΩ	3	10
100 kΩ	1 MΩ	3	10
1 MΩ	10 MΩ	4	10
10 MΩ	100 MΩ	10	30
100 MΩ	1 GΩ	30	150

4.2 Test capability

Resistance	Maximum current (A)	Maximum voltage (V)	Maximum power (W)
100 Ω	100 m	10	1
1 kΩ	100 m	100	10
10 kΩ	70.7 m	707	50
100 kΩ	10 m	1000	10
1 MΩ	1 m	1000	1
10 MΩ	100 μ	1000	100 m
100 MΩ	10 μ	1000	10 m
1 GΩ	1 μ	1000	1 m

- 4 terminal

5. General Specifications

Power supply	AC (220 ± 22) V, (50 ± 2) Hz, 150 VA；
Warm up time	Twice the time since last warmed up, to a maximum of 60 minutes.
Temperature performance	Operating temperature: 18 °C ~ 28 °C； Storage temperature: -20 °C ~ 60 °C；
Humidity performance	Operating humidity: (20% ~ 50%) R·H, non-condensing； Storage humidity: (15% ~ 80%) R·H, non-condensing；
Communication interface	RS232、IP