



Multi-function Calibrators



Metrology



Industry



Research

Tunkia Co., Ltd.

COMPANY PROFILE

TUNKIA Co., Ltd. stands as a distinguished leader in the realm of electrical calibration and magnetic measurement, offering a comprehensive range of advanced equipment and services to meet the diverse needs of industries worldwide. From metrological calibration to the intricacies of power grid management, industrial testing, and pivotal scientific research endeavors, TUNKIA's products and technologies excel in addressing complex measurement challenges. With a global footprint extending across more than 50 countries and regions, TUNKIA serves a clientele exceeding 30,000 users worldwide, addressing complex measurement challenges with cutting-edge products and technologies.

Founded in 2006, TUNKIA has been at the forefront of the electromagnetic measurement industry for nearly two decades. Presently, the company boasts a 12,000m² research and development center alongside an 11,000m² intelligent factory. With a workforce exceeding 400 employees, including 30% dedicated to research and development, TUNKIA allocates 25% of its annual revenue to furthering innovation. This commitment underscores its deep technical expertise and robust product development capabilities.

TUNKIA has currently developed three major product series: Scientific Instruments, General Instruments, and Large-scale Equipment. The Scientific Instruments series aims to domesticate and independently control high-end instruments to break the technology stranglehold. The General Instruments series, based on precision measurement technology, provides various general-purpose testing equipment for power grids and industrial inspection, strengthening industrial quality standards. The Large-scale Equipment series applies intelligent and automated testing technology to high-end manufacturing industries such as new energy, new materials, and sensors, facilitating the advancement of intelligent manufacturing.

TUNKIA is active in domestic technical committees such as the China Metrology Technical Committee on Electromagnetic and Chinese Society for Measurement, as well as international standardization organizations like IEC and IEEE, and has participated in revising a total of 77 standards, including 3 international standards and 18 national standards. In 2022, the company was honored with the National-Level Specialized, Sophisticated, New and Distinctive "Little Giant", making it the sole enterprise in the electromagnetic measurement field to receive this recognition.

In the future, TUNKIA will remain committed to practicality and innovation, delivering internationally acclaimed products. We will collaborate with upstream and downstream partners in the industry chain to establish a robust ecosystem for precision testing and quality control instruments!



HONOR & CERTIFICATION



Patent application:
36 invention patents
36 utility model patents
17 design patents



Software copyright: 107 items



Certification of Intellectual Property Management System
ISO9001 Quality Management System Certification
ISO14001 Environmental Management System Certification
Software Enterprise Certification
Three-level Enterprise of Safety Production Standardization

TH1950
**High-Precision
Multi-function Calibrator**



P1

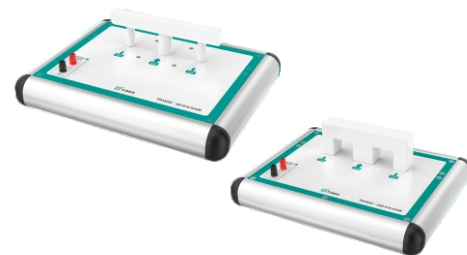
TD18 SERIES
**Precision
Multi-function Calibrator**

TD1880 (6.5 digit) / TD1870 (5.5 digit)
TD1860 (4.5 digit) / TD1858 (4.5 digit-portable)
TD1855 (3.5 digit) / TD1850 (3.5 digit)



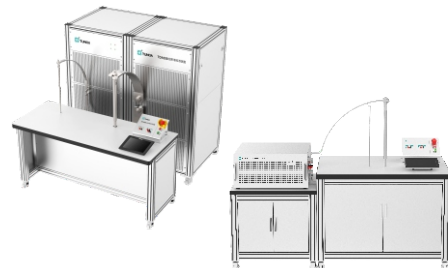
P3

TD1020
Current Coil



P13

TD1000/TD1050
**Clamp Meter
Calibration Device**



P14

TD1500
**High-precision
DC Testing System**



P16

TH1950

High-precision Multi-function Calibrator

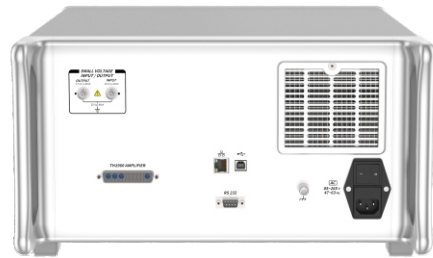
- TH1950 is a new generation of **top-level multi-function calibrator** with a wider calibration range and higher calibration accuracy. It can output AC and DC voltage and current signals with excellent performance and has built-in high-stability standard resistors.
- It can calibrate various series of digital multimeters and other precision electrical measuring instruments, and is widely used in power grids, scientific research, integrated circuit development, high-precision sensor testing and other fields.

Features

- High-precision multi-function signal output
- Calibrate **7.5/8.5 digit** multimeters
- Supports AC and DC current expansion output to 120A (with TA1000)
- Excellent output stability, DCV 24h short-term stability ≤ 1 ppm
- Excellent interaction performance
- Supports various value output methods such as touch screen output, button output and rotary knob output

Characteristics

Specifications	Range	1-Year Optimal Uncertainty (k=2)
DC Voltage	$\pm(0 \sim 1100 \text{ V})$	3.5 ppm + 4 μV @20 V
DC Current	$\pm(0 \sim 2.2 \text{ A})$	35 ppm + 40 nA @20 mA
AC Voltage	200 μV ~ 1100 V, 10 Hz ~ 1 MHz	42 ppm + 50 μV @20 V, 40 Hz~20 kHz
AC Current	9 μA ~ 2.2 A, 10 Hz ~ 10 kHz	103 ppm + 2.5 μA @200 mA, 40 Hz~1 kHz
Resistance	0 ~100 M Ω	6.5 ppm @1 k Ω /1.9 k Ω /10 k Ω /19 k Ω
Frequency	10 Hz ~ 1 MHz	0.005%
Interfaces	RS 232 \times 1, USB \times 1, LAN \times 1	
Touch Screen	5-inch	
Size	432 mm(W) x 517 mm(D) x 222 mm(H)	



Calibrate
7.5/8.5
digit
multimeters

TH1950 High-precision Multi-function Calibrator

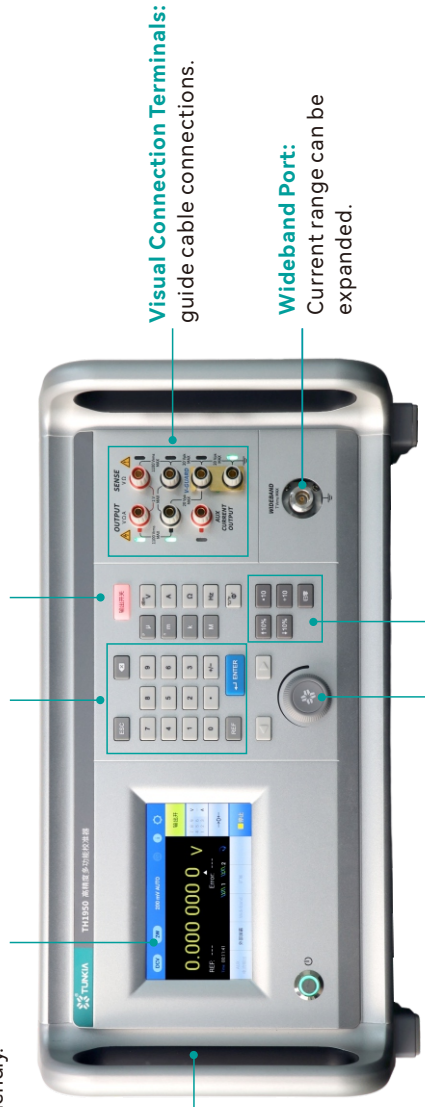
Front Panel

Large Color Touch Screen: Full-color LCD screen, supports touch operation, versatile and user-friendly.

Button Output: keypad for easy manual operation.

Control output by pressing **OPR/STBY**.

Handles: Rugged handles make TH1950 easy to transport.



Visual Connection Terminals: guide cable connections.

Wideband Port: Current range can be expanded.

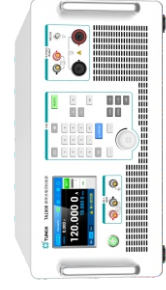
Rotary Knob Output: Use the direction buttons to adjust the cursor, and use rotary knob to increase or decrease the value.

Percentage Output: Use the percentage button (10% ↑, 10% ↓, x10, ÷10) to adjust the value in even decade steps.

Expand Current



TH1950



TA1000

TH1950 High-precision Multi-function Calibrator can be used with TA1000 Transconductance Current Standard Source to **expand the output current range up to 120A.**

- Accuracy: 100 ppm
- Operating frequency: DC ~ 10 kHz
- Output current: 120 A (max)
- Short-term stability: 0.001%

TD18 SERIES Precision Multi-function Calibrator

Suitable for calibrating digital multimeter and other precision electrical measuring instruments

TD18 series multi-functional calibrators are high-performance multi-functional calibrator which carefully built by over 20 years of advanced technology accumulation. They are designed by advanced large-scale high-speed integrated circuit, complex programmable logic array, high-power integrated power amplifier and other technologies with the advantages of high integration, stable performance and good reliability.

They can output excellent performance of AC/DC voltage, AC/DC current, AC/DC power, phase, frequency and other electrical parameters with analog resistance, capacitance, thermocouple and thermal resistance, pulse output and other functions and being capable of calibrating 6.5 and below digital multi-meters and other precision electrical measuring instruments. Optimum accuracy can reach 10ppm and equipped with 50T/100T current coil can calibrate high-current clamp meter.

Calibrate **6 $\frac{1}{2}$** DMM **TD1880**

Calibrate **5 $\frac{1}{2}$** DMM **TD1870**

Calibrate **4 $\frac{1}{2}$** DMM **TD1858** PORTABLE **TD1860**

Calibrate **3 $\frac{1}{2}$** DMM **TD1850** **TD1855**

TD18 SERIES

Precision Multifunction Calibrator

- A multi-functional calibrator with wide range, high precision, and with built-in ultra precision AC/DC voltage and current sources.
- It can output excellent electrical parameters such as DC voltage, DC current, DC power, AC voltage, AC current, AC power, phase, frequency, etc.
- It has functions such as simulating resistors, capacitors, thermocouples, thermal resistors, and pulse outputs.
- Can calibrate 6.5 digit digital multimeter and other precision electrical measuring instruments.

Function	TD1850	TD1855	TD1858	TD1860	TD1870	TD1880
DC Voltage Output	★	★	★	★	★	★
DC Current Output	★	★	★	★	★	★
DC Resistor Output	★	★	★	★	★	★
AC Voltage Output	★	★	★	★	★	★
AC Current Output	★	★	★	★	★	★
AC/DC Power Output	—	★	—	★	★	★
Pulse Frequency Output	★	★	★	★	★	★
DC Small Signal Measurement	☆	☆	—	☆	—	—
Clamp Coil	☆	☆	☆	☆	☆	☆
Capacitive Output	—	—	—	—	—	☆
Thermal Resistor Output	—	—	—	—	☆	☆
Thermocouple Output and Measurement	—	—	☆	—	☆	☆
Calibration Simulation Meter	★	★	★	★	★	★
Remote Control Adjustment Box	☆	☆	—	☆	—	—

★: Standard function ☆: Optional function —: Not support

Parameter Overview	TD1850	TD1855	TD1858	TD1860	TD1870	TD1880
DUT	3.5	3.5	4.5	4.5	5.5	6.5
DC Voltage	1100 V, 500 ppm	1100 V, 500 ppm	+1020, -10.4 V, 110 ppm	±1100 V, 85 ppm	±1020 V, 52 ppm	±1020 V, 11 ppm
DC Current	22 A/33 A, 500 ppm	22 A/33 A, 500 ppm	±10.2 A, 300 ppm	±22 A/±33 A, 150 ppm	±20.5 A, 70 ppm	±20.5 A, 87 ppm
DC Resistance	220 MΩ, 500 ppm	220 MΩ, 500 ppm	220 MΩ, 500 ppm	220 MΩ, 170 ppm	1100MΩ, 75 ppm	1100 MΩ, 35 ppm
AC Voltage	1100 V, 500 ppm	1100 V, 500 ppm	1020 V, 500 ppm	1100 V, 500 ppm	1020 V, 200 ppm	1020 V, 117 ppm
AC Current	22 A/33 A, 500 ppm	22 A/33 A, 500 ppm	10.4 A, 1000 ppm	22 A/33 A, 500 ppm	20.5 A, 200 ppm	20.5 A, 250 ppm
Sine Wave Frequency	1100 Hz, 100 ppm	1100 Hz, 100 ppm	20 kHz, 100 ppm	1500 Hz, 100 ppm	500 kHz, 100 ppm	500 kHz, 50 ppm
Touch Screen	5.6 inches	5.6 inches	4.3 inches	7.0 inches	7.0 inches	6.4 inches
Weight	about 18 kg	about 19.5 kg	about 9.5 kg	about 25 kg	about 25 kg	about 24 kg
Size (excluding handles and feet)(W * D * H, unit: mm)	475*400*190	475*400*190	210*365*266	450*505*203	450*505*203	440*462*206

*For detailed specifications of each model, please contact us for more information: global@tunkia.com



TD1880 Precision Multi-function Calibrator

TD1880 Precision Multi-function Calibrator

- TD1880 is a multi-function calibrator with wide range and high accuracy, which is applied for calibrating **6.5 digit** or less digital multimeters.
- It integrates AC/DC voltage and current standard source, and can output excellent DC/AC voltage, DC/AC current, DC/AC power, phase, frequency, and analog resistance and capacitance etc.

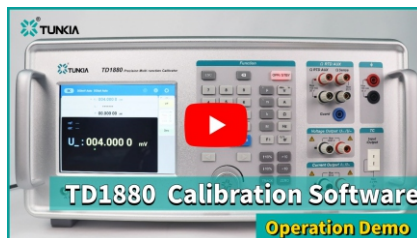


Features

DUT	6.5 digit multimeter
DC Voltage	±1020V, 11ppm
DC Current	±20.5A, 87ppm
DC Resistance	1100MΩ, 35ppm
AC Voltage	1020V, 117ppm
AC Current	20.5A, 250ppm
Sine Wave Frequency	500kHz, 50ppm
LCD Screen	6.4 inches
Weight	Approx 24kg
Size	440*462*206 (mm)
Application	<ul style="list-style-type: none"> Calibrate digital multimeters, AC/DC voltmeter, AC/DC ammeter, DC ohmmeter, frequency meter. Calibrate DC power meter, real power meter, phantom power meter, apparent power meter, power frequency phase meter and power factor meter.



Operation Demo



[YouTube](#) @Tunkia Calibration & Measurement

TD1870 Multi-function Calibrator

DCV $\pm 1020V$, 52ppm

DCI $\pm 20.5A$, 70ppm

ACV 1020V, 200ppm

ACI 20.5A, 200ppm

LCD 7.0 inches

Weight 25kg

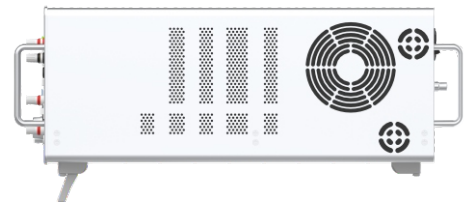
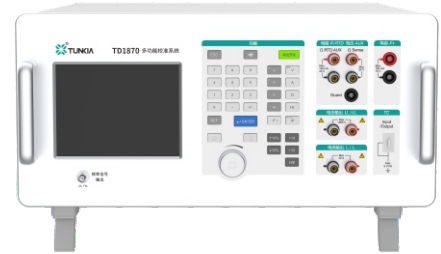
Size 450*505*203 (mm)

Calibrate **5.5 digit**
multimeter.



TD1870 Multi-function Calibrator

- TD1870 is a multi-function calibrator with wide range and high accuracy, integrates AC/DC voltage and current standard source, can output excellent DC/AC voltage, DC/AC current, DC/AC power, phase, frequency, and analog resistance etc.
- It's applied for calibrating **5.5 digit** or less digital multimeters.



Features

DUT	5.5 digit multimeter
DC Voltage	±1020V, 52ppm
DC Current	±20.5A, 70ppm
DC Resistance	1100MΩ, 75ppm
AC Voltage	1020V, 200ppm
AC Current	20.5A, 200ppm
Sine Wave Frequency	500kHz, 100ppm
LCD Screen	7.0 inches
Weight	Approx 25kg
Size	450*505*203 (mm)
Application	<ul style="list-style-type: none"> Calibrate DC voltmeter, DC ammeter, DC ohmmeter, AC voltmeter, AC ammeter, wattmeter, power factor meter, frequency meter, etc. Calibrate RTD temperature meter and clamp meter and power factor meter.

Operation Demo



[YouTube](#) @Tunkia Calibration & Measurement

TD1860 Multi-function Calibrator

DCV $\pm 1100V$, 85ppm

DCI $\pm 22A/\pm 33A$, 150ppm

ACV 1100V, 500ppm

ACI 22A/33A, 500ppm

LCD 7.0 inches

Weight 25kg

Size 450*505*203 (mm)

Calibratre 4.5 digit multimeter.



TD1860 Multi-function Calibrator

- TD1860 is a multi-function calibrator with wide range and high precision, integrates AC/DC voltage source, AC/DC current source, DC resistance source, etc. The DC accuracy class is up to 0.01, and the AC accuracy class is up to 0.05.
- It's applied for calibrating **4.5 digit** multimeters, voltmeter, ammeter, ohmmeter, power meter.



TD1858 Multi-function Calibrator



- TD1858 is a high precision and multi-function calibrator, integrates AC/DC voltage source, AC/DC current source, DC resistance source, etc.
- It's applied for calibrating **4.5 digit** multimeters, and is **portable** and very suitable for on-site calibration.

Features

Model	TD1860	TD1858
DUT	4.5 digit multimeter	
DC Voltage	±1100V, 85ppm	+1020, -10.4V, 110ppm
DC Current	±22A/±33A, 150ppm	±10.2A, 300ppm
DC Resistance	220MΩ, 170ppm	220MΩ, 500ppm
AC Voltage	1100V, 500ppm	1020V, 500ppm
AC Current	22A/33A, 500ppm	10.4A, 1000ppm
Sine Wave Frequency	1500Hz, 100ppm	20kHz, 100ppm
LCD Screen	7.0 inches	4.3 inches
Weight	Approx 25kg	Approx 9.5kg
Size	450*505*203 (mm)	210*365*266 (mm)

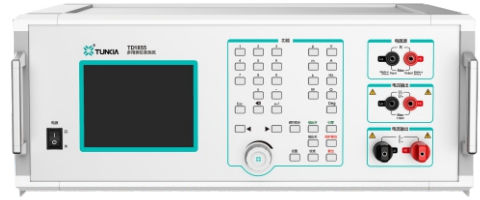
Operation Demo



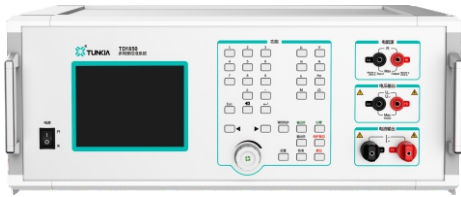
@Tunkia Calibration & Measurement

TD1855 Calibrator for Multimeter

- TD1855 is a multi-function calibrator, integrates AC/DC voltage source, AC/DC current source, DC resistance source, etc. The accuracy class is 0.05.
- It's applied to calibrating **3.5 digit** multimeter, voltmeter, ammeter, ohmmeter, power meter.



TD1850 Calibrator for Multimeter



- TD1850 is a multi-function calibrator, integrates AC/DC voltage source, AC/DC current source, DC resistance source, etc. The accuracy class is 0.05.
- It's applied to calibrating **3.5 digit** multimeter, voltmeter, ammeter, ohmmeter, power meter.

Features

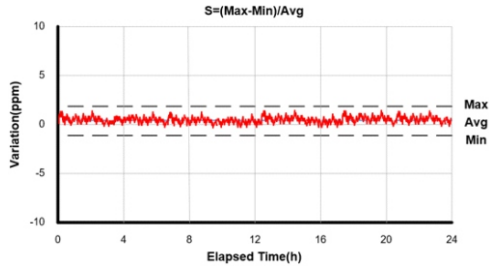
Model	TD1855	TD1850
DUT	3.5 digit multimeter	
DC Voltage	1100V, 500ppm	1100V, 500ppm
DC Current	22A/33A, 500ppm	22A/33A, 500ppm
DC Resistance	220MΩ, 500ppm	220MΩ, 500ppm
AC Voltage	1100V, 500ppm	1100V, 500ppm
AC Current	22A/33A, 500ppm	22A/33A, 500ppm
Sine Wave Frequency	1100Hz, 100ppm	1100Hz, 100ppm
LCD Screen	5.6 inches	5.6 inches
Weight	Approx 19.5kg	Approx 18kg
Size	475*400*190 (mm)	475*400*190 (mm)

Operation Demo



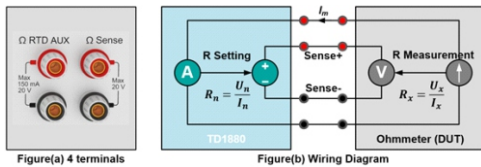
 YouTube
@Tunkia Calibration & Measurement

High Stability and Accuracy



- TD1880: The DC voltage stability is up to 2 ppm/24h.
- TD1870: The DC voltage stability is up to 4 ppm/24h.
- TD1860: The DC voltage stability is up to 0.005%/24h, and the DC current stability is up to 0.01%/24h.

4-terminals Simulated DC resistance

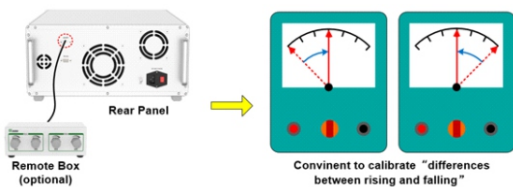


- Compared with the standard physical resistance box, the analog resistance output has the following characteristics:
- ① Continuously adjustable, with better adjustment fineness and sensitivity
 - ② Smaller size and lighter weight
 - ③ No influence of transfer switch error, residual resistance error and contact resistance error.

- TD1880/TD1870/TD1860 have 2-terminals and 4-terminals resistance wiring mode.
- When calibrating the low value resistance, the four wire system wiring mode can effectively eliminate the measurement error caused by the resistance of the test lead and improve the measurement accuracy.

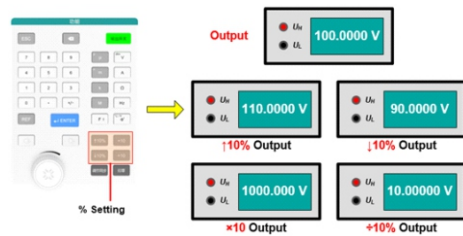
Multiple Output/Adjustment Methods

Remote Adjustable Box (optional)



- Calibration of the analog pointer meter usually needs to test scale by scale, especially "differences between rising and falling" (the change caused by the rise and fall of the calibration point).
- Remote box can realize the coarse and fine adjustment of current or voltage.

Operation Button

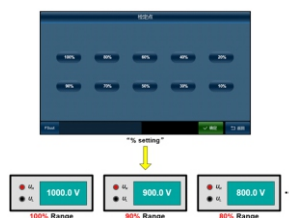


- Use the key "↑10%"、"↓10%"、"×10"、"÷10" on the front panel, can realize the adjustment of the quantity value, and can also be used to perform the relevant test of linearity.

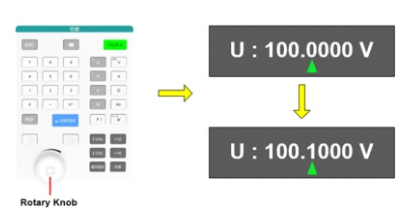
Direct Output



Percentage(%) Setting



Rotary Knob

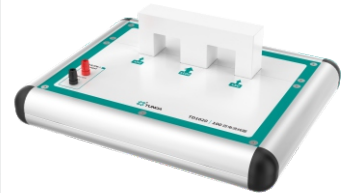


TD1020 Current Coil



- TD1020 is a series of current coils, it is applied for calibrating clamp Ammeters combined with AC/DC current source.

Equivalent current output	1000 At / 2000 At
Max current input	22 A rms / 44 A rms
DC accuracy	0.3%
AC accuracy	0.3%@50Hz, 0.5%@400Hz
Frequency	DC, 45 Hz ~ 400 Hz

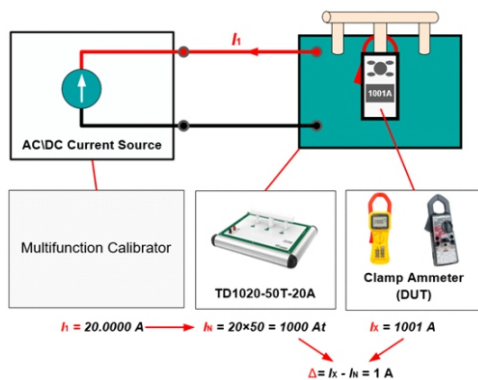


Specifications

Model		TD1020-50T-20A	TD1020-50T-40A	TD1020-100T-20A
Turns	Middle	50	50	100
	Side	25	25	50
Max current input		22 A rms	44 A rms	22 A rms
Continuous output time		<11 A, continuous; >11 A, ≤ 30minutes.	<22 A, continuous; >22 A, ≤ 30minutes.	< 11 A, continuous; > 11 A, ≤ 30minutes.
Frequency		DC, 45 Hz ~ 400 Hz	DC, 45 Hz ~ 400 Hz	DC, 45 Hz ~ 65 Hz
Accuracy		DC: ±0.3% AC: ±0.3% @ 50 Hz, ±0.5% @ 400 Hz		

Application

Calibrate Clamp Ammeter



Equivalent to 1000 At / 2000 At current combined with AC/DC current source, which is applied for calibrating clamp meters.

Ordering Information

TD1020 -

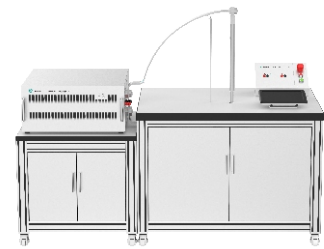
Turn		Max Current Input	
Code	Note	Code	Note
50T	50-turn	20A	20 A
100T	100-turn	40A	40 A

e.g.:TD1020-50T-20A notes for turns of the coil are 50, and the max input current is 20 A.

TD1000/TD1050 Calibration Device for Clamp Meters

- TD1000/TD1050 is a calibration device for clamp meters, integrating AC/DC current source, AC/DC voltage source and resistance source.

Features	TD1000	TD1050
Accuracy	Class 0.05, class 0.1 available	Class 0.05
DC current	20 mA ~ 22A (optional)	10 mA ~ 1050 A (2100 A is optional)
AC current output	20 mA ~ 1100 A	10 mA ~ 1020 A (2050 A is optional)
DC voltage output	20 mV ~ 1100V (optional)	20 mV ~ 1100 V (optional)
AC voltage output	1 V ~ 825 V	1 V ~ 825 V (optional)
Frequency	45 Hz ~ 65 Hz	40 Hz ~ 400 Hz
DC resistance output	10 Ω ~ 11 MΩ	10 Ω ~ 110 MΩ (optional)
-	Two thickness copper rings	
-	Remote adjustment (optional)	AC/DC power output (optional)



TD1000



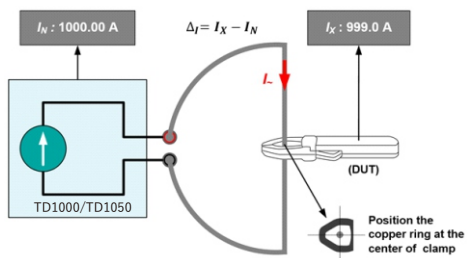
TD1050

Application

Devices Can be Calibrated						
TD1000	☆	★ (AC only)	★	☆	★	—
TD1050	☆	★	☆	☆	☆	☆

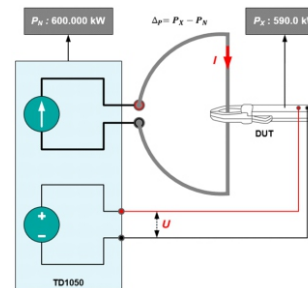
★: Standard function ☆: Optional function —: Not support

Calibrate AC Clamp Meter by Single-turn Method



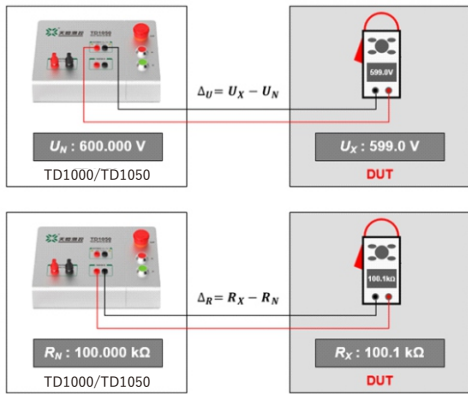
Two thickness copper rings.

Calibrate Clamp Power Meters (TD1050 optional)

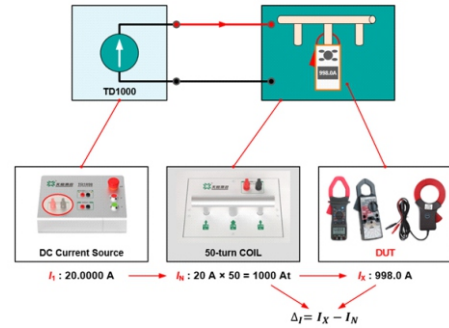


Integrates AC/DC current and voltage standard source, the U-I phase can be adjusted, which is suitable for calibrating clamp power meters.

Calibrate Multi-function Clamp Meters (TD1000 standard/TD1050 optional)



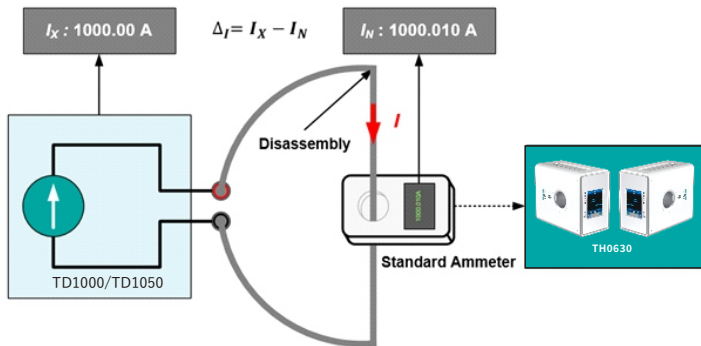
Calibrate Clamp Power Meters (TD1000 optional)



- DCI output: 20 mA ~ 22 A; Coil: 50 t, accuracy ±0.3%
- Equivalent to 1000At current through input 20A current to the 50t Coil, which is suitable for calibrating DC clamp meters.

Characteristics

Convenient Traceability



TD1000

Calibrate the AC current source through accessing the standard ammeter() to the current loop.

TD1050

Calibrate the AC\DC current source through accessing the standard ammeter(TH0630 or TH0530) to the current loop.

Notes: TH0630 Precision Through Core AC Ammeter
TH0530 Precision Through Core Ammeter

Ordering Information

TD1000 - [] []

Accuracy		Function	
Code	Note	Code	Note
500	Class 0.05	Empty	AC Output
1k	Class 0.1	T	AC/DC Output

e.g.: TD1000-500 notes for class 0.05, with the function of AC Output.

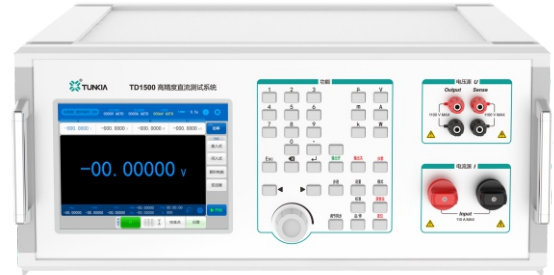
TD1050 - [] []

Max Current Range		Function	
Code	Note	Code	Note
1kA	1 kA	Empty	Current Only
2kA	2 kA	M	Multi-function

e.g.: TD1050-2kA notes for the max current range of the device is 2 kA, current output only.

TD1500 High-precision DC Testing System





- TD1500 is a wide range, high precision, multi-functional DC standard source precision instrument.
- It can directly output DC voltage, current, power and electric energy with high stability and high accuracy.
- The best measurement uncertainty has three specifications of Class 0.01 / Class 0.02 / Class 0.05, which is suitable for verification or calibration of various types of DC measuring instruments.



- The technical performance of the equipment is in the leading Class among similar products, and it is widely used in electric power, measurement, military industry, manufacturing, scientific research and other fields to establish DC measurement standards.

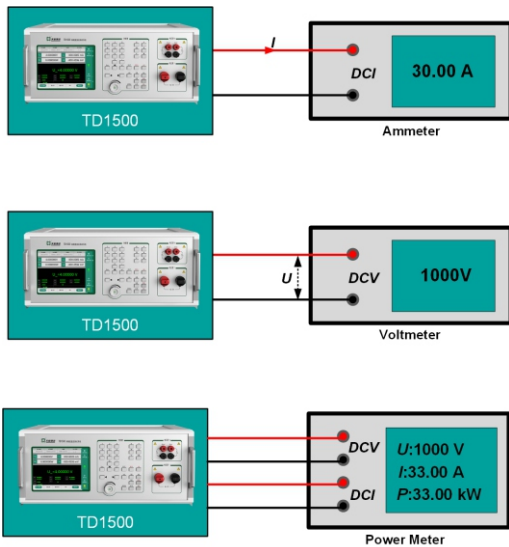
DC voltage standard source	1 mV ~ 1100 V (1150 V @ electric energy selection)
DC current standard source	1 μ A ~ 33 A / 100 A (optional)
DC Small signal voltage standard source	100 μ V ~ 4.4 V (optional)
DC small signal voltage measurement function	10 μ V ~ 4.4 V (optional)
A variety of quantity and value output mode	Standard
Special automatic test software	Optional
Support for remote control adjustment output	Optional
Verification of DC electricity meter	Functional Option
Secondary signal measurement of the transmitter	Functional Option

Application

Device Can be Calibrated				
TD1500	★	★	☆	☆

★: Standard function ☆: Optional function —: Not support

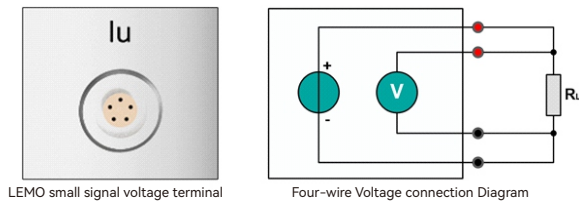
Calibrate DC Electrical Measuring Meter



- DC voltage standard source (DCV) output range: 1 mV ~ 1100 V (power type up to 1150 V)
- DC current standard source (DCI) output range: 1 μ A ~ 33 A / 110 A (optional)(power type up to 120 A)
- Class 0.01 specification instrument: suitable for calibrating DC voltmeter and ammeter of Class 0.05 and below, and suitable for calibrating DC power meter of Class 0.1 and below.

Characteristics

Four-wire Small Signal Voltage Source

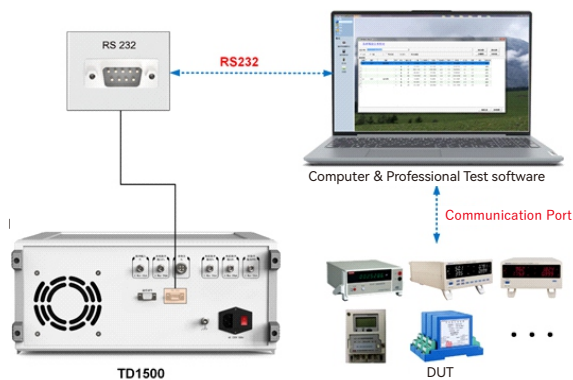


LEMO small signal voltage terminal

Four-wire Voltage connection Diagram

- Four-wire small signal voltage source: can accurately output \pm (10 μ V~4.4 V) small signal voltage signal, as the current input of indirect access DC electricity meter (the shunt specification can be set, and displayed according to its primary current).
- Scheme value: using the four-wire Kelvin connection mode, and equipped with low thermal potential terminal and wire, compared with the traditional two-wire voltage source, can effectively eliminate the influence of wire resistance, contact potential and thermal potential on the measurement.

Professional Test Software (optional)



- Support for test data recording, analysis, management, and certificate export.
- Software functions can be customized according to customer needs, and support subsequent software upgrades required by adding new procedures for testing.



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In view of the continuous updating and upgrading of products,
in case of any change in the technical indicators here, the actual contract shall prevail.

