



# INSTRUCTION MANUAL

## MT989

### 200A MICRO-OHMMETER

## MT988

### 100A MICRO-OHMMETER





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## 1. PRODUCT INTRODUCTION

The MT989 and MT988 are high-performance circuit resistance testers, also known as micro-ohmmeters or contact resistance testers, specifically developed by Major Tech for precision low-resistance measurements. Designed for intelligent, stable, and highly accurate operation, they are ideal for applications requiring reliable performance in demanding environments. They utilize a ripple-free DC current, generated by a large-capacity rechargeable lithium battery, with a maximum output of 100A for MT988 and 220A for MT989. The output current can be precisely adjusted in 2.5A increments, offering up to 87 selectable current levels for multi-level testing.

These instruments are built around a high-speed micro controller and integrate several advanced technologies, including:

- High-precision A/D conversion
- Digital measurement technology
- Anti-power frequency interference technology
- Advanced programmable current source technology

Key features include:

- **Customizable high-current test durations:** 10s, 20s, 30s, 40s, 50s, 60s
- **Wide current output range:** <5A, 5A, 10A, 30A, 50A, 80A, and 100A
- **MT989** has added current outputs of 200A and 220A
- **Precision current control:** Adjust the output in 2.5A increments, both upward and downward
- **Ultra-fast testing mode:** Test durations of less than 1 second
- **High accuracy and stability,** even in environments with strong electromagnetic interference
- **5-inch color touch LCD display** for intuitive operation
- **Built-in standard resistors** for self-calibration before formal testing
- **Wide measurement range and large internal data storage**
- **Robust EMI resistance, simple user interface, and compact, portable design**

The MT989 and MT988 are designed to perform a variety of low-resistance tests, including:

- **Contact resistance testing** of high-voltage switches and circuit breakers
- **Connection resistance testing** of metal welding components
- **Loop resistance testing** in metal conductors and busbars
- **Micro-ohm measurements** for quality control and maintenance diagnostics

## 2. PRODUCT FEATURES

- **Large 5-Inch Full-Color Touch Screen** with a resolution of 854 x 480 pixels; also includes physical buttons for alternative navigation
- **Built-in 4200mAh Rechargeable Lithium Battery** for extended operation
- **Four-Wire Testing Method** for high-accuracy resistance measurement
- **Adjustable Timer Settings**, from quick test mode up to 60 seconds, in 10-second increments
- **Data Storage Capacity** for up to 999 test records, with built-in data lookup functionality

### Standards and Certifications:

- **IEC 61010-1 CAT III 600V**, Pollution Level 2
- **JIG166-1993** – DC Resistor Verification Regulations
- **DL/T967-2005** – Loop Resistance Tester and DC resistance rapid tester verification regulations
- **CE Marking**

## 3. WARNING

 **To avoid electric shock or fire:**

- Read the **entire manual** before using the micro-ohmmeter and its accessories.
- Carefully follow **all instructions** provided.
- **Do not work alone.**
- **Do not use** the product near explosive gases, vapors, or in **humid environments**.
- Use the product **only as specified**. Improper use may compromise the protective features of the micro-ohmmeter
- Use only **insulated current probes, test leads, and adapters** provided with or specified for the micro-ohmmeter
- **Insert and twist** the test lead cable into the input terminals, ensure that the test lead's connector is securely inserted into the instruments terminal
- Always hold the clamp probe **on the handguard** during use.
- **Inspect** the micro-ohmmeter, test leads, and accessories for any signs of physical damage **before use**. Replace any damaged components immediately.
- Check for **cracks or missing plastic parts**, especially around the insulation near connectors.
- Verify that the micro-ohmmeter is functioning properly by testing a **known resistance source**.
- Remove all **unused probes, test leads, and accessories** before operation.
- **Connect the power adapter to the AC outlet first**, then plug it into the micro-ohmmeter.
- Do not perform measurements in **flammable or explosive environments**, as sparks may cause an explosion.
- Do not touch any **exposed conductors or the circuit under test** during the measurement process.
- **Do not use the micro-ohmmeter to test the sensitive resistive components**, as the test current may cause damage.
- **Do not store** the instrument in high-temperature, high-humidity, damp environments, or in direct sunlight for extended periods.
- If **safety measures fail**, or if the micro-ohmmeter is **not used as instructed by the manufacturer**, the device's protective features may be compromised.
- Only **authorized personnel** are permitted to disassemble, calibrate, or maintain this instrument.

## 4. SECURITY INFORMATION (PLEASE READ FIRST)

### 4.1. Environmental Conditions for Use

Operating Temperature	-10 to 40°C/14 to 104°F; 40 to 50°C/104 to 122°F (Battery operation only)
Storage Temperature	-20 to 60°C/-4 to 140°F
Humidity	10 to 30°C/50 to 86°F: 95% Relative humidity, no condensation. 30 to 40°C/86 to 104°F: 75% Relative humidity, no condensation. 40 to 50°C/104 to 122°F: 45% Relative humidity, no condensation.
Maximum Working Altitude	CAT IV 600V, CAT III 600V, up to 2000m (6,666 ft) above sea level; CAT III 600V, CAT II 1000V, up to 3000m (10,000 feet) above sea level; Maximum storage height is 12,000m (40,000 ft).
EMC	Comply with EN 61326 (2005-12) radiation and anti-interference standards

### 4.2. Power Supply

- **AC Power Supply:** Operates using city electricity via an **AC 100–240V adapter** (equipped with a country-specific plug).
- **DC Input:** The power adapter supports an input voltage range of **14.8V DC**.









Rated for: **600V CAT IV / 1000V CAT III**, Pollution Degree 2

- **Important Note:** Always use the micro-ohmmeter and its accessories according to the instructions in the user manual. Failure to do so may compromise the safety and protection features of the device and its accessories.

### 4.3. International Symbols

**WARNING** The term "**Warning**" indicates a situation or behavior that may pose a **hazard or danger to the user**.

**ATTENTION** The term "**Attention**" refers to conditions or actions that may cause **damage to the analyzer**.

	See the instructions in the manual
	Grounding Communication
	AC
	DC
	Safety Certification
	Safety Certification
	European Compliance
	Current Clamp

## 5. DESCRIPTION


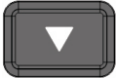
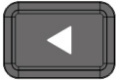






### 5.1. Panel Description

- 1 - C2 Interface (I- Current)
- 2 - P2 Interface (U- Potential)
- 3 - P1 Interface (U+ Potential)
- 4 - C1 Interface (I+ Current)
- 5 - C-Type USB Port
- 6 - Power Button
- 7 - Enter Key
- 8 - Return Key
- 9 - Test Button
- 10 - Colour Touch Screen
- 11 - Data Recall Button
- 12 - Right Arrow Button
- 13 - Left Arrow Button
- 14 - Down Arrow Button
- 15 - Up Arrow Button
- 16 - Charging Port














## 5.2 Silicone Buttons

- This section provides a description of the silicone buttons and their functions.

Button	Description	Operating Function
	Up Arrow Button	Press the up arrow to scroll up
	Down Arrow Button	Press the down arrow to scroll down
	Left Arrow Button	Press the left button to scroll left
	Right Arrow Button	Press the right button to scroll left
	Data Recall Button	Press the data button to retrieve the relevant stored information
	Power Button	Press the power button to turn on the instrument
	Enter Button	Press the button to store the readings. Also used to select deletion of data
	Return Button	Press the return button to go back to the previous screen
	Test Button	Press the Test button to start the testing process






### 5.3 Touch Screen Icon Keys

- This section provides a description of the Touch Screen icons and their functions.

Icon	Description	Operating Function
	Return Button	Tap the return button to go back to the previous screen
	Up Arrow Key	Tap the up arrow key to scroll up
	Down Arrow Key	Tap the down arrow key to scroll down
	Left Arrow Key	Tap the left arrow key to scroll left
	Right Arrow Key	Tap the right arrow key to scroll left
	Delete Key	Tap the delete key to delete the stored test records
	Enter Button	Tap the button to store the readings. Also used to print the test data
	Save Key	Tap the Save key to record the test results
	Test Key	Tap the Test key to start the testing process
	Current Set Key	Tap the Current set key to set the output current required for test
	Time Set Key	Tap the Time set key to set the test time required for the test

## 5.4 Screen Information Icon

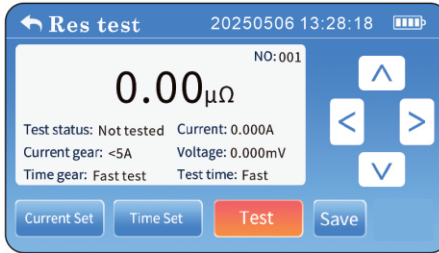
- This section provides a description of the Touch Screen icons and their functions.

Icon	Description
	Indicates the adjustment of the backlight brightness
	Battery in charging state
	Battery level, remaining battery reserve
	Battery depleted, recharge battery
	Displays the date or time currently being adjusted in settings mode

## 6. Initial Set-Up Guidance

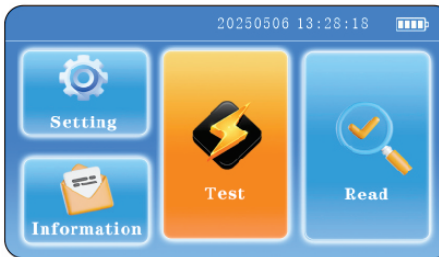
### 6.1 Starting Up

- Press the **power button** to start the device. The instrument will load the Main Measurement menu interface.



### 6.2 Settings Menu

- Press the **Return Key** or tap the **Return icon** to display the main menu screen
- **Tap the Settings icon** on the screen to enter the desired initial settings requirements.



### 6.3 Backlight and Shutdown

- The main display for settings is the Backlight and Shutdown timer section
- To select the Backlight or Shutdown icon for adjustment, use the UP and DOWN arrow buttons, or simply tap the desired icon. A blue arrow will indicate which setting is currently selected for adjustment.
- Adjust the **Backlight** using the LEFT and RIGHT arrow buttons or by moving the circle icon on the grey bar to change brightness.
- To adjust the shutdown time, use the LEFT and RIGHT arrow buttons or tap the left and right arrows on the screen. The meter can be set to disable Auto Off entirely, or you can choose a shutdown time from 1 to 30 minutes in 1-minute intervals.



## 6.4 Time and Date Setting

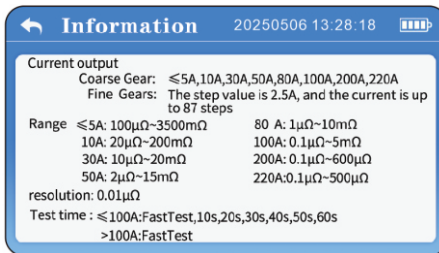
- Tap the **Time icon** on the screen to display the year, month and time settings
- Use the **LEFT** and **RIGHT** buttons to navigate to the desired date or time section.
- Once the desired date or time position is selected, use the **UP** and **DOWN** buttons to make adjustments.



- To return to the **Main menu**, press the **Return Key** or tap the **Return icon** in the top-left corner of the screen

## 7. Instrument Information

- On the Main menu press the **Information icon** to view the instrument's measurement parameters
- To return to the **Main menu**, press the **Return Key** or tap the **Return icon** in the top-left corner of the screen



## 8. CONNECTION INSTRUCTIONS BEFORE INSTRUMENT MEASUREMENT

### 8.1. Before each measurement, ensure the following settings are reviewed and configured:

- **Configure the current output setting.**
- **Set the Test Time duration**
- **Verify that the test leads are firmly inserted into the correct terminals**

### 8.2. Safety Guide for Testing

- Ensure the product under test is powered off before testing. Do not perform tests while the product is powered on.
- When connecting the test clip to the grounding wire, be aware that the contact surface is often exposed to air and may develop an oxide film. This oxide layer can lead to unstable or inaccurate test results. To ensure proper contact, clean the oxide film before connecting, or twist the test clip firmly several times after attaching it to the lead-out terminal to break through the oxide layer and establish a reliable connection.
- If the device shuts down unexpectedly during testing, it may be due to insufficient power. In this case, connect the charger to recharge the battery, or set the device to emergency test mode with an output current below 5A.

### 8.3. Measurement Setup Guide for Testing

- This tester uses the **four-wire measurement method**. The maximum allowable voltage at the instrument's voltage input terminals (P1 and P2) is 2.0V.
- Before connecting the test leads, ensure that the clamping area of the test object is free from oxidation or dirt. If contaminants are present, clean the surface promptly to ensure proper contact with the test clamps.

## 9. Test Lead Connection and Disconnection Method – Operation Guide

- The tester includes a pair of current clamps and a pair of voltage clamps for both red and black leads:
  - **Red clamps:** C1 (current) and P1 (voltage)
  - **Black clamps:** C2 (current) and P2 (voltage)
- Insert the large **black and red test lead clamps** into the **large input terminals**, and the small **black and red leads** into the **4 mm terminals**, as shown in the image Fig 1.
- To connect the large current test leads, **align the slot on the lead with the slot on the terminal**, insert the leads, and twist to secure the connection, as shown in the image Fig 2. To disconnect reverse procedure.



Fig 1



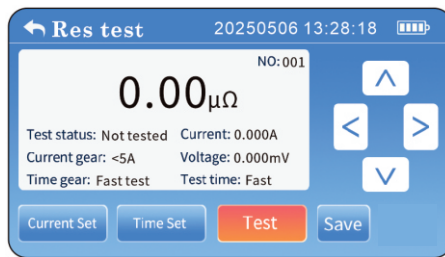
Fig 2

## 10. Operation Guidance

### 10.1 Configure the Measurement Parameters

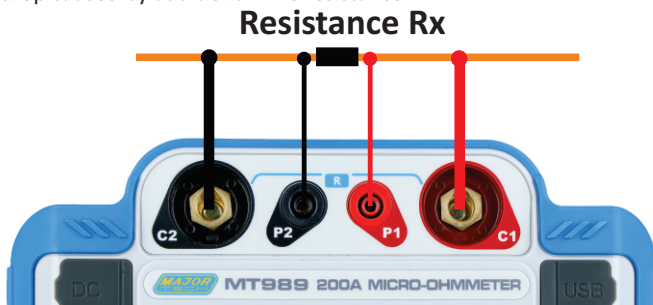
On the main resistance test interface:

- Select **“Current Set”**
- Select the desired current level using the **UP** and **DOWN** arrows, or tap the **Current Set icon** on the screen. Each tap of the icon will increase the current to the next available output level.
- Current output ranges from <5A, 5A, 10A, 30A, 50A, 80A, 100A. MT989 has added current outputs of 200A and 220A
- The **UP** and **DOWN** arrows on the screen allow for precise current control. Tap the **UP** arrow to increase the current by 2.5A, or tap the **DOWN** arrow to decrease it by 2.5A. Each time an arrow is tapped, the current changes by 2.5A accordingly.
- Next select **“Time Set”**
- Select the desired time duration of test by using the **UP** and **DOWN** arrows, or tap the **Time Set icon** on the screen. Each tap of the icon will increase the time to the next available time from Fast to 10s, 20s, 30s, 40s, 50s and 60s.



### 10.2 Connect the Current and Voltage Clamps

- Attach the red and black clamps to the part of the object where resistance measurement is required.
- When making connections, ensure that all clamps are securely fastened and not loose or slipping. Improper connections may affect measurement accuracy or pose safety risks.
- Position the voltage clamps as close as possible to the two ends of the test object to reduce voltage drop caused by additional wire resistance.



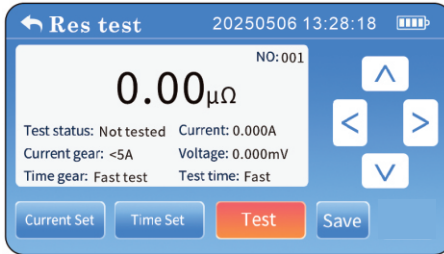
### 10.3 Resistance Testing

- When all settings are properly configured and the clamps are firmly connected to the object's surface, testing can proceed.
- Select **“Test”**, initiate the test by pressing the **Test icon** on the screen or the **Yellow Test** button.
- During the test, the status will display "Testing" and the buzzer will sound. Once the test is complete, the buzzer will stop, and the status will change to “Unsaved.”
- To stop the test, briefly press the Test button again to interrupt testing.

## 11. Record & View

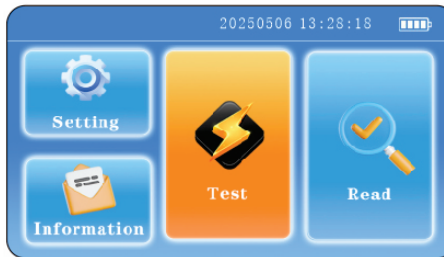
### 11.1 Overview of the Data Storage

- The **Save** function enables the device to record multiple measurement readings with high resolution.
- Readings are captured and displayed on the large LCD screen, showing all measured parameters.
- The meter can store up to 999 groups of data

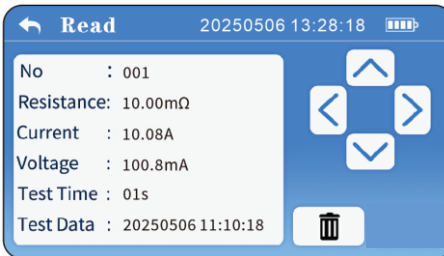



### 11.2 Accessing and Using the Recorded Data

- On the **main interface**, tap and select “**Read**”



- The first saved reading will be displayed, along with its corresponding record number on the screen.
- Use the **LEFT** or **RIGHT** rubber buttons, or the on-screen arrows, to scroll through the readings one by one. The readings will be displayed incrementally or decrementally.
- If the total number of saved data groups exceeds 10, pressing the **UP** or **DOWN** rubber arrow buttons, or the **UP** and **DOWN** buttons on the screen, will navigate through the stored readings in increments of 10.

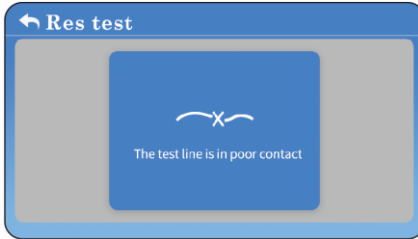


- To delete data, click the “” icon to enter delete mode, then select “**Yes**” to confirm.

## 12. Testing Errors

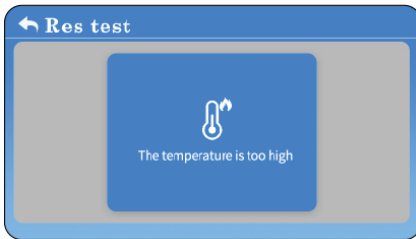
### 12.1 Poor Contact

- If the test result exceeds the measurable range, the status will display "**Out of Range**". No other operations can be performed during the test.
- To stop the test, briefly press the Test button again to interrupt testing.
- If the contact between C1 and P1, or C2 and P2 is poor, the meter will automatically stop the test.
- A message stating "Test line contact is poor" will be displayed, and the meter will return to the test page with the test data shown for reference only. The test status will display as "Exceeds the Range". This test data can still be saved.



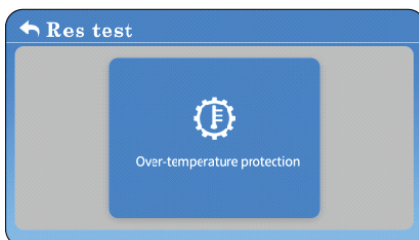
### 12.2 Temperature Exceeded

- If a large current (exceeding 100A) is used continuously, the output terminal of the test equipment will heat up, leading to an excessive rise in the device's overall temperature.
- Current output will automatically stop.
- Accordingly, after each high-current test, a cooling period of at least 10 minutes is required before the instrument can be used again.
- A message stating "**Test line contact is poor**" will be displayed, and the instrument will return to the test page with the test data shown for reference only. The test status will display as "**Exceeds the Range**". This test data can still be saved.




### 12.3 Overrange Temperature Safety

- If the output terminal of the meter reaches a dangerous temperature level, the meter will temporarily halt and then resume high-power testing after a short delay.
- If the battery temperature becomes too high, the meter will stop outputting current and display the message: "**Overheat protection activated – output stopped**".
- Tap the icon on the screen to return to the test page. You can also save the test data.



## 13. Rechargeable Battery

### 13.1 Battery Charging

- After the machine is powered on, if the low battery symbol  appears in the upper right corner of the screen, it indicates that the battery level is low. Please charge the device promptly.
- Stable testing can only be ensured when the battery is sufficiently charged.
- Power consumption during testing is higher than in standby mode. If you plan to use a current above 100A, please ensure the battery is fully charged beforehand.
- If the power is insufficient to support the test, the device will shut down automatically. Please recharge the battery before performing the test again.
- Rechargeable batteries have a lifespan of between 300 to 1,000 charge cycles. This mainly depends on various factors as listed below:
  - Usage patterns
  - Charging habits
  - Operating temperature
- If replacement is needed, please contact Major Tech.

### 13.2 Safe Storage of Battery

- Should the instrument not be used for an extended period, maintain the battery at around 50% charge and perform regular charge-discharge cycles. It is recommended to check the battery level at least once a month.
- When the battery is low, please recharge it promptly. Avoid overcharging or deep discharging, as these can lead to battery damage.
- Only use the standard charger supplied with the Major Tech meter to charge the device.
- Do not attempt to open or unseal the battery cover. Battery replacement should only be performed by authorized Major Tech personnel.

## 14. Accessories

### Standard Accessories:

- Carrying case
- 1 x 3m Red clamps: C1 (current) and P1 (voltage)
- 1 x 3m Black clamps: C2 (current) and P2 (voltage)
- Power adapter: 14.8V/1.5A DC with US/EU/UK/AU interchangeable plugs
- Instruction manual

## 15. TECHNICAL SPECIFICATIONS

### 15.1 Product Performance Index

Model	Maximum Test Current	Note
MT988	100A	None
MT989	220A	100A - The above current only supports fast mode

### 15.2 Range and Accuracy

Function	Measuring Range	Resolution	Precision
220A (MT989 Only)	0.10μΩ to 10.00μΩ	0.01μΩ	±(0.15% + 0.5μΩ)
	10.0μΩ to 100.0μΩ	0.1μΩ	
	100μΩ to 500μΩ	1μΩ	±(0.15% + 5μΩ)
200A (MT989 Only)	0.10μΩ to 10.00μΩ	0.01μΩ	±(0.15% + 0.5μΩ)
	10.0μΩ to 100.0μΩ	0.1μΩ	
	100μΩ to 600μΩ	1μΩ	±(0.15% + 5μΩ)
100A	0.10μΩ to 10.00μΩ	0.01μΩ	±(0.15% + 0.5μΩ)
	10.0μΩ to 100.0μΩ	0.1μΩ	
	100μΩ to 1000μΩ	1μΩ	±(0.15% + 5μΩ)
	1.00mΩ to 5.0mΩ	1μΩ	±(0.15% + 0.05mΩ)
80A	0.10μΩ to 10.00μΩ	0.01μΩ	±(0.15% + 0.5μΩ)
	10.0μΩ to 100.0μΩ	0.1μΩ	
	100μΩ to 1000μΩ	1μΩ	±(0.15% + 5μΩ)
	1.00mΩ to 5.0mΩ	1μΩ	±(0.15% + 0.05mΩ)
50A	2.00μΩ to 10.00μΩ	0.01μΩ	±(0.15% + 1μΩ)
	10.0μΩ to 100.0μΩ	0.1μΩ	
	100μΩ to 1000μΩ	1μΩ	±(0.15% + 5μΩ)
	1.00mΩ to 10.0mΩ	0.01mΩ	±(0.15% + 0.05mΩ)
	10.0mΩ to 15.0mΩ	0.1mΩ	±(0.15% + 0.5mΩ)
30A	10.0μΩ to 100.0μΩ	0.1μΩ	±(0.15% + 1μΩ)
	100μΩ to 1000μΩ	1μΩ	±(0.15% + 5μΩ)
	1.00mΩ to 10.0mΩ	0.01mΩ	±(0.15% + 0.05mΩ)
	10.0mΩ to 20.0mΩ	0.1mΩ	±(0.15% + 0.5mΩ)
10A	20.0μΩ to 100.0μΩ	0.1μΩ	±(0.5% + 5μΩ)
	100μΩ to 1000μΩ	1μΩ	
	1.00mΩ to 10.00mΩ	0.01mΩ	±(0.5% + 0.05mΩ)
	10.0mΩ to 100.0mΩ	0.1mΩ	±(0.5% + 0.5mΩ)
	100mΩ to 200mΩ	1mΩ	±(0.15% + 5mΩ)
Less than 5A	100μΩ to 1000μΩ	1μΩ	±(1% + 10μΩ)
	1.00mΩ to 10.0mΩ	0.01mΩ	±(1% + 0.05mΩ)
	10.0mΩ to 100.0mΩ	0.1mΩ	±(1% + 0.5mΩ)
	100mΩ to 1000mΩ	1mΩ	±(1% + 5mΩ)
	1000mΩ to 3500mΩ	1mΩ	±(1% + 10mΩ)

### 15.3 Additional Technical Information

Function	Specification
Power Supply	11.1V DC - 4200mAh large capacity rechargeable lithium battery
Test Mode	The Four-Wire method
Test Interface	C+ (Current Positive), C- (Current Negative), P+ (Voltage Positive), P- (Voltage Negative)
Current Options	<5A, 10A, 30A, 50A, 80A, 100A, 200A (MT989), 220A (MT989) Fine tune the gear: Step value 2.5A up to 87A
Testing Time	100A: Quick Test, 10s, 20s, 30s, 40s, 50s, 60s >100A: Quick test
Display Mode	5-Inch touch screen (854 dots x 480 dots) full colour LCD display
Interactive Mode	Touch Screen or Button
LCD Size	108mm (L) x 65mm (H)
Data Storage	999 Group
Auto Off	Selectable as Off (bypass), 1 to 30 minutes in 1 minute intervals
Power Dissipation	Standby Mode - Approximately 2W (100% brightness)
Weight	1.4kg Instrument only including battery
Dimensions	229mm (L) x 166mm (W) x 74mm (D)

### 16. PRODUCT REGISTRATION

Scan the QR code to activate your warranty.



### 17. WARRANTY

#### Warranty Coverage

Major Tech warrants its test instruments to be free from defects in materials or workmanship under normal use and service for a period of two (2) years from the date of shipment. This warranty is extended exclusively to the original purchaser, provided the online Product Registration has been completed on either [www.major-tech.com](http://www.major-tech.com) or [www.majortech.com.au](http://www.majortech.com.au) depending on which country the product was purchased. This warranty is non-transferable.

#### Exclusions

This warranty does not cover:

- Disposable batteries and fuses.
- Damage caused by leaking batteries (damaging the meter and components).
- Normal wear and tear of mechanical components.
- Failures caused by use outside the product's specifications.
- Any product which, in the opinion of Major Tech, has been misused, contaminated, or damaged due to neglect.

### Check Procedure

Prior to contacting Major Tech or a distributor regarding a warranty claim, please check the following:

- Batteries are installed correctly.
- Battery condition – either replace disposable batteries or ensure rechargeable batteries are charged where applicable.
- Test leads are inserted in the correct terminals and are fully inserted, no damage to test leads.

### Contact Information

For any warranty claims or inquiries, please contact either Major Tech or the distributor from whom the product was purchased.



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# ***MAJOR TECH (PTY) LTD***

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