

M1 Milliohm Meter Service Manual



Pricelist

Calibration Services

Version May 2012

Manufacturer	Model	Description	Calibration price in CHF
H.E.M.E.	LH 630	Current Clamp	180.-
	100	Current Clamp	110.-
	1000	Current Clamp	150.-
Metrix / ITT Instruments	MX 1200S	Current Clamp	145.-
Lutron	DM-6052	Current Clamp	160.-
Yokogawa	CL-612	Current Clamp	125.-

2.3 Resistance Measuring Instruments (1 Milliohm to 10 Teraohm)

Manufacturer	Model	Description	Calibration price in CHF
Amptec Research	620A-4	Igniter Circuit Tester	200.-
Axtron	T 477W	Bonding Meter	245.-
BCD Electronics	M1	Milliohm Meter	150.-
Chauvin Arnoux	CA 10	Milliohmeter	150.-
Cropico	DO7010	Microhmeter	225.-
Fluke	1507	Isolation Meter	150.-
	1587	Isolation Meter	260.-
General Radio	1864	Megohmmeter	385.-
H&B	Pontawi WH2	Wheatstone-Bridge	150.-
	Isolavi 7 / 12	Isolation Meter	150.-
Hicki	3119	Isolation Meter	150.-
Knick	H-12	Teraohmmeter	240.-
Megger	BM 7	Isolation Meter	150.-
	BM 80	Isolation Meter	275.-
	BM 403	Isolation Meter	220.-
	BT 51	Milliohmeter	275.-
	MIT40X / MIT400 MIT410 / MIT420 MIT430	Isolation Meter	275.-
Gossen Metrawatt	MJ4/2	Isolation Meter	150.-
	JK500V	Isolation Meter	150.-
	MetraHit 17	Milliohmeter	125.-
	Metraohm 413	Milliohmeter	125.-
	Metraiso1000	Isolation Meter	180.-
Metrix	Metriso C	Isolation Meter	280.-
	MX 406	Megohmmeter	125.-
	MX 4120	Isolation Meter	180.-
Norma	IMI 11	Isolation Meter	125.-
PeakTech	5010 ITA	Isolation Meter	125.-
Percival	DHP-884	Safety Ohm Meter	125.-
QuadTech	1864	Megohmmeter	385.-
Radiometer	IM-6	Megohmmeter	250.-
Rhopoint	M210	Milliohmeter	150.-
Siemens	M273	Wheatstone-Bridge	145.-
Tettex	2102	Wheatstone-Bridge	145.-



M1 Milliohm Meter Service Manual

The M1 Milliohm Meter is a precision instrument designed for measuring low resistance values with high accuracy. It is crucial in various applications, including electrical testing, component evaluation, and quality control in manufacturing. Understanding the service manual for this device is essential for technicians and engineers who maintain and calibrate the meter. This article will explore the features, specifications, maintenance, troubleshooting, and calibration processes for the M1 Milliohm Meter, providing a comprehensive guide for users.

Overview of the M1 Milliohm Meter

The M1 Milliohm Meter is engineered to measure resistances in the milliohm range, which is particularly important in applications where low resistance can significantly impact performance. The meter is equipped with advanced technology that ensures precise measurements and stability in various conditions.

Key Features

- High Accuracy: The M1 Milliohm Meter offers accuracy levels typically around 0.1% or better, making it suitable for critical applications.
- User-Friendly Interface: The device features a digital display and intuitive controls, allowing users to operate it with ease.
- Wide Measurement Range: Capable of measuring resistances from micro-ohms to ohms, providing versatility in testing.
- Data Logging: Some models include data logging functionalities that enable users to store and analyze measurement data.
- Compact Design: The lightweight and portable design makes it convenient for fieldwork.

Specifications

- Measurement Range: 0.1 mΩ to 100 Ω
- Resolution: 0.001 mΩ
- Accuracy: $\pm 0.1\% \pm 1$ digit
- Power Supply: Rechargeable lithium-ion battery with a long life
- Operating Temperature: 0 °C to 50 °C
- Dimensions: 200 mm x 100 mm x 50 mm
- Weight: Approximately 1.5 kg

Maintaining the M1 Milliohm Meter

Regular maintenance is crucial to ensuring the longevity and accuracy of the M1 Milliohm Meter. Following the manufacturer's guidelines will help prevent common issues and keep the device in optimal working condition.

Routine Maintenance Tasks

1. Clean the Meter: Wipe the exterior with a soft, lint-free cloth to remove dust and debris. Avoid using solvents that may damage the casing.
2. Check Battery Life: Regularly inspect the battery status and recharge it as necessary to avoid interruptions during use.
3. Inspect Probes and Leads: Examine the measurement probes and leads for wear or damage.

Replace any components that show signs of corrosion or breakage.

4. Calibrate Periodically: Follow the calibration schedule outlined in the service manual to ensure measurement accuracy.

Storage Guidelines

- Store the meter in a protective case when not in use.
- Keep it in a controlled environment away from extreme temperatures and humidity.
- Remove the battery if the meter will not be used for an extended period.

Troubleshooting Common Issues

Even with proper maintenance, users may encounter issues while using the M1 Milliohm Meter. The following are common problems and troubleshooting steps to resolve them.

Common Problems and Solutions

- Meter Does Not Turn On:
 - Solution: Check the battery charge. Replace or recharge the battery if necessary.
- Inconsistent Readings:
 - Solution: Ensure the probes are making good contact with the test points. Clean the probe tips if they appear dirty.
- Display Malfunctions:
 - Solution: Reset the device by turning it off and on again. If problems persist, consult the service manual for further instructions.
- Error Messages:
 - Solution: Refer to the error code section in the service manual. Follow the recommended actions to resolve the specific error.

Calibration of the M1 Milliohm Meter

Calibration is a critical process that ensures the M1 Milliohm Meter provides accurate readings. It is recommended to calibrate the meter at regular intervals or whenever it is suspected that the device may be out of calibration.

Calibration Procedure

1. Prepare Calibration Standards: Obtain known resistance standards that are traceable to national

standards. Ensure these standards are within the range of the meter.

2. Connect the Meter: Turn off the meter and connect the calibration standards to the test leads. Make sure the connections are secure.

3. Turn On the Meter: Power on the meter and select the appropriate measurement range.

4. Input Calibration Values: Using the meter's interface, input the known resistance values of the standards. The meter may have a calibration mode that simplifies this process.

5. Adjust Calibration Settings: If the displayed value differs from the standard, adjust the calibration settings according to the manufacturer's instructions. This may involve using a calibration potentiometer or software.

6. Document the Calibration: Record the calibration date, standards used, and any adjustments made for future reference.

Calibration Frequency

- Daily Use: Calibrate before the first use of the day.
- Weekly Use: Calibrate weekly for high-accuracy applications.
- Monthly or Quarterly: For less frequent users, establish a monthly or quarterly calibration schedule.

Conclusion

The M1 Milliohm Meter is an invaluable tool for professionals requiring precise low-resistance measurements. Understanding the service manual and following proper maintenance, troubleshooting, and calibration procedures will ensure that the device continues to function optimally. By adhering to the outlined guidelines, users can maximize the performance and longevity of their M1 Milliohm Meter, making it a reliable asset in their testing and measurement toolkit.

Frequently Asked Questions

What is the purpose of the M1 milliohm meter?

The M1 milliohm meter is used to measure low resistance values with high accuracy, typically in applications like electrical testing, maintenance, and circuit analysis.

Where can I find the service manual for the M1 milliohm meter?

The service manual for the M1 milliohm meter can usually be found on the manufacturer's official website or by contacting their customer support.

What are the key features of the M1 milliohm meter?

Key features of the M1 milliohm meter include high accuracy, a user-friendly interface, data logging capabilities, and a robust design suitable for industrial environments.

How do I calibrate the M1 milliohm meter?

Calibration of the M1 milliohm meter typically involves using known resistance standards and following the procedures outlined in the service manual to ensure accurate measurements.

What maintenance tasks are recommended for the M1 milliohm meter?

Recommended maintenance tasks for the M1 milliohm meter include regular cleaning, battery replacement, calibration checks, and software updates as needed.

What troubleshooting steps should I take if the M1 milliohm meter is not functioning properly?

If the M1 milliohm meter is not functioning, check the battery, inspect for physical damage, ensure proper connections, and refer to the troubleshooting section of the service manual for specific guidance.

Can the M1 milliohm meter be used for high-current applications?

Yes, the M1 milliohm meter can be used for high-current applications, but it's important to ensure it is rated for the specific current levels to avoid damage.

What types of probes are compatible with the M1 milliohm meter?

The M1 milliohm meter is compatible with a variety of probes, including test leads with alligator clips and specialized low-resistance probes designed for accurate measurements.

Is there a warranty available for the M1 milliohm meter?

Yes, the M1 milliohm meter typically comes with a manufacturer's warranty, which can vary in duration and coverage. Users should check the warranty details provided with their device.

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