REED

LCR Meter



Instruction Manual



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Introduction

Thank you for purchasing your REED R5001 LCR Meter. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

Product Quality

This product has been manufactured in an ISO 9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.



Safety

This manual should be read and well understood before the instrument is used.

- Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.
- Do not operate in an explosive atmosphere.
- Do not operate in the presence of flammable gases or fumes.
- · Keep away from live circuits.
- Do not remove the instrument cover.
- This meter is for indoor use, altitude up to 2000m.
- When measuring in-circuit components, first de-energize the circuits before connecting the test leads.
- Do not measure a capacitor that is not fully discharged.
- When measuring within a circuit, the circuit must be de-energized before connecting the test leads.
- Wipe the instrument clean when used in a dusty environment.
- Do not leave the instrument exposed to direct heat for long periods of time.
- · Before removing the battery cover, ensure that the instrument is disconnected from any circuit and is powered OFF.

Features

- · Measures inductance, capacitance and resistance
- Autoranging for AC impedance and DE resistance measurement
- Auto LCR smart check and measurement
- Series/Parallel modes
- Ls/Lp/Cp with D/Q/Ø/ESR parameters
- Support DCR mode 200Ω to 200MΩ
- High accuracy with 4/5 terminal Kelvin measurement
- 10kHz testing frequency and up to 100kHz output frequency
- Large backlit dual LCD display
- Data hold and relative functions
- · Low battery indication with auto power off



Included

- Test Leads and Probes
- Tweezers
- Alligator Clips
- Batteries

Specifications

Test Frequencies: 100/120/1k/10k/100kHz

Test AC Signal Level: 0.6mVRMS typical

Test Range (F=1kHz): L: 200µH to 2000H C: 2000pF to 2mF

R: 20Ω to $200M\Omega$

Primary Parameters Display: DCR: DC resistance

Ls: Serial inductance Lp: Parallel inductance

Cs: Serial capacitance

Cp: Parallel capacitance

Rs: Serial resistance

Rp: Parallel resistance

Second Parameter Display: θ : Phase angle

ESR: Equivalence Serial Resistance

D: Dissipation factor

Q: Quality factor

Power Supply: 6 x 1.5 AA Batteries

Dimensions: 8.6 x 3.7 x 2.4" (220 x 96 x 60mm)

Weight: 0.8lb (360g)



Accuracy

Notes:

- · Measurement performed at the test socket.
- Measurements performed after correct open and short calibration.
- DUT and test leads must be properly shielded.
- Q value is the reciprocal of DF.
- Accuracies based within 10% to 100% of full scale of range; values outside of range should be used as reference only.
- "---" means parallel or series measurement mode.

Inductance @ Ta = 18 to 28°C (De) Frequency = 100 Hz/120 Hz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
20.000mH	1μH	1.5% ±10d	1.5% ±50d	Series
200.00mH	0.01mH	1.4% ±15d	1.4% ±50d	Series
2000.0mH	0.1mH	1.5% ±15d	1.5% ±50d	Series
20.000H	1mH	1.6% ±10d	1.6% ±50d	
200.00H	0.01H	1.3% ±10d	1.3% ±50d	Parallel
2000.0H	0.1H	2.0% ±15d	2.0% ±50d	Parallel
20.000kH	0.001kH	2.5% ±15d	2.5% ±50d	Parallel

Frequency = 1kHz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
2000.0μH	0.1µH	1.3% ±10d	1.3% ±50d	Series
20.000mH	1µH	1.2% ±10d	1.2% ±50d	Series
200.00mH	0.01mH	1.2% ±10d	1.2% ±50d	Series
2000.0mH	0.1mH	1.5% ±15d	1.5% ±50d	
20.000H	1mH	1.5% ±15d	1.5% ±50d	Parallel
200.00H	0.01H	2.0% ±10d	2.0% ±50d	Parallel
2000.0H	0.1H	2.5% ±15d	2.5% ±50d	Parallel



Frequency = 10kHz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
200.00µH	0.01µH	1.8% ±10d	1.8% ±50d	Series
2000.0uH	0.1µH	1.5% ±10d	1.5% ±50d	Series
20.000mH	1µH	1.2% ±10d	1.2% ±50d	Series
200.00mH	0.01mH	1.5% ±15d	1.5% ±50d	
2000.0mH	0.1mH	2.0% ±10d	2.0% ±50d	Parallel
20.000H	1mH	2.5% ±15d	2.5% ±50d	Parallel

Frequency = 100kHz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
20.000µH	0.001µH	2.5% ±10d	2.5% ±50d	Series
200.00µH	0.01µH	1.5% ±10d	1.5% ±50d	Series
2000.0µH	0.1µH	1.3% ±15d	1.3% ±50d	Series
20.000mH	1µH	2.0% ±15d	2.0% ±50d	Parallel
200.00mH	0.01mH	2.5% ±15d	2.5% ±50d	Parallel

Capacitance @ Ta = 18 to 28°C (De) Frequency = 100Hz/120Hz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
20.000nF	1pF	2.5% ±10d	2.5% ±50d	Parallel
200.00nF	0.01nF	1.2% ±10d	1.2% ±50d	
2000.0nF	0.1nF	0.9% ±10d	0.9% ±50d	
20.000μF	1nF	1.0% ±15d	1.0% ±50d	Series
200.00μF	0.01µF	1.2% ±10d	1.2% ±50d	Series
2000.0μF	0.1µF	2.5% ±10d	2.5% ±50d	Series
20.00mF	0.01mF	5.0% ±10d	5.0% ±50d	Series



Frequency = 1kHz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
2000.0pF	0.1pF	3.5% ±15d	3.5% ±50d	Parallel
20.000nF	1pF	1.0% ±10d	1.0% ±50d	
200.00nF	0.01nF	0.9% ±10d	0.9% ±50d	
2000.0nF	0.1nF	1.0% ±10d	1.0% ±50d	Series
20.000μF	1nF	1.2% ±15d	1.2% ±50d	Series
200.00μF	0.01µF	2.5% ±10d	2.5% ±50d	Series
2000µF	1µF	4% ±20d	4% ±50d	Series

Frequency = 10kHz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
200.00pF	0.01pF	3.0% ±8d	3.0% ±50d	Parallel
2000.0pF	0.1pF	1.0% ±10d	1.0% ±50d	
20.000nF	1pF	0.9% ±10d	0.9% ±50d	
200.00nF	0.01nF	0.8% ±10d	0.8% ±50d	Series
2000.0nF	0.1nF	1.0% ±8d	1.0% ±50d	Series
20.000μF	1nF	2.0% ±8d	2.0% ±50d	Series
200.0μF	0.1µF	4.5% ±15d	4.5% ±50d	Series

Frequency = 100kHz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
200.00pF	0.01pF	2.5% ±15d	2.5% ±50d	Parallel
2000.0pF	0.1pF	1.0% ±8d	1.0% ±50d	Parallel
20.000nF	1pF	1.8% ±8d	1.8% ±50d	Parallel
200.00nF	0.01nF	1.5% ±10d	1.5% ±50d	Series
2000.0nF	0.1nF	2.5% ±15d	2.5% ±50d	Series



Resistance @ Ta = 18 to 28°C (De) Frequency = 100Hz/120Hz

Range	Resolution	Rx Accuracy	Measurement Mode
200.00Ω	0.01Ω	1.2% ±10d	
2.0000kΩ	0.1Ω	0.8% ±5d	
20.000kΩ	1Ω	0.9% ±5d	
200.00kΩ	0.01kΩ	0.7% ±3d	
2.0000ΜΩ	0.1kΩ	1.0% ±5d	
20.000ΜΩ	1kΩ	2.2% ±10d	
200.0ΜΩ	0.1ΜΩ	2.5% ±10d	

Frequency = 1kHz

Range	Resolution	Rx Accuracy	Measurement Mode
20.000Ω	1mΩ	1.2% ±10d	
200.00Ω	0.01Ω	0.8% ±5d	
2.0000kΩ	0.1Ω	0.8% ±3d	
20.000kΩ	1Ω	0.7% ±3d	
200.00kΩ	0.01kΩ	1.0% ±5d	
2.0000ΜΩ	0.1kΩ	1.5% ±10d	
20.000ΜΩ	1kΩ	1.8% ±10d	
200.0ΜΩ	0.1ΜΩ	6.0% ±50d	

Frequency = 10kHz

Range	Resolution	Rx Accuracy	Measurement Mode	
20.000Ω	1mΩ	1.5% ±10d		
200.00Ω	0.01Ω	0.8% ±10d		
2.0000kΩ	0.1Ω	0.9% ±5d		
20.000kΩ	1Ω	0.8% ±3d		
200.00kΩ	0.01kΩ	1.0% ±5d		
2.0000ΜΩ	0.1kΩ	2.5% ±10d		
20.00ΜΩ	0.01ΜΩ	2.8% ±10d		



Frequency = 100kHz

Range	Resolution	Rx Accuracy	Measurement Mode	
20.000Ω	$\Omega\Omega$ 1mΩ 2.3% ±10d			
200.00Ω	0.01Ω	1.5% ±5d		
2.0000kΩ	0.1Ω	0.8% ±20d		
20.000kΩ	1Ω	0.8% ±20d		
200.00kΩ	0.01kΩ	1.5% ±10d		
2.000ΜΩ	1kΩ	2.5% ±30d		

DC Resistance @ Ta = 18 to 28°C (De)

Frequency = 100Hz/120Hz/1kHz/10kHz/100KHz

Range	Resolution	Rx Accuracy	Measurement Mode					
200.00Ω	0.01Ω	1.8% ±10d						
2.0000kΩ	0.1Ω	0.6% ±20d						
20.000kΩ	1Ω	0.6% ±10d						
200.00kΩ	0.01kΩ	0.5% ±3d						
2.0000ΜΩ	0.1kΩ	1.5% ±5d						
20.000ΜΩ	1kΩ	2.0% ±5d						
200.0ΜΩ	0.1ΜΩ	2.5% ±5d						

D Value Accuracy @ Ta =18 to 28°C (De)

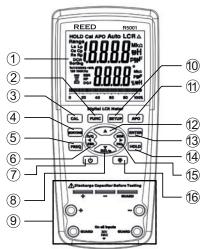
2 value / to out along of the 10 to 20 of (20)								
Freq./Z	0.1 to 1Ω	1 to 10Ω	10 to 100k $\!\Omega$	100k to 1M $\!\Omega$	1 to 20M Ω	20 to 200M $\!\Omega$		
100/120Hz	±0.03	±0.01	0.009	±0.010	±0.02	±0.04		
1kHz	±0.03	±0.01	0.009	±0.010	±0.02	±0.09		
10kHz	±0.03	±0.01	0.009	±0.009	±0.01	±0.04		
100kHz	±0.04	±0.03	0.010	±0.010	±0.02	±0.04		

θ Value Accuracy @ Ta =18 to 28°C

Freq./Z	0.1 to 1 Ω	1 to 10Ω	10 to 100kΩ	100k to 1MΩ	1 to 20MΩ	20 to 200MΩ
100/120Hz	±0.65°	±0.36°	±0.23°	±0.45°	±0.65°	±1.35°
1kHz	±0.65°	±0.36°	±0.23°	±0.45°	±0.65°	±3.63°
10kHz	±0.65°	±0.36°	±0.23°	±0.45°	±1.35°	N/A
100kHz	±1.27°	±0.65°	±0.49°	±0.65°	±1.35°	±1.35°



Instrument Description



- 1. LCD Display
- 2. Function Button
- 3. Calibration Button
- 4. Sorting Button
- 5. Frequency Button
- Secondary Display/ Left Button
- 7. Power Button
- 8. Relative/Down Button
- Input Sockets (Banana Jack Inputs) and Terminals for Positive, Negative, and Guard

- 10. Setup Button
- 11. Auto Power Off Button
- 12. Up Button
- 13. Enter Button
- 14. Hold Button
- 15. Parallel/Series/Right Button
- 16. Backlight Button

Operating Instructions

Power ON/OFF

To turn the meter on or off, press the power button. By default, the meter is set to Auto LCR Smart mode with a test frequency of 1kHz.

Auto Power Off

To preserve battery life, the meter is programmed to turn off after 5 minutes of inactivity and 3 warning beeps. If a button is pushed during the three beeps, the meter will continue measuring. To turn this feature on and off, press the **APO** button. When enabled, "APO" will appear on the display.

Beep Function

This meter will beep once if the function selected is available, and beep twice if the function selected is unavailable.

◆ = Active Functions

Button	FUNC	HOLD	DQθ	S/P	BKLIT	SORT	REL%	FREQ
AUTOLCR	*	♦			•		♦	
L	*	♦	*	•	•	•	*	*
С	*	♦	*	•	•	•	•	*
ACR	*	♦		•	•	*	*	*
DCR	*	*			•	*	♦	

Backlight

Press the Backlight Button to turn the backlight on or off. The backlight will stay on for 60 seconds before turning off automatically.

Battery Charge

The three horizontal bars above the battery symbol on the LCD screen indicate the charge left in the batteries. When the three bars are no longer visible the batteries need replacement. See "Battery Replacement" for details.



Test Frequency Functions

Test frequency can greatly affect the results of measurement readings, especially when measuring inductors and capacitors. This section provides some recommendations and suggestions to consider.

Capacitance

When measuring capacitance, selecting the right frequency is important in obtaining the most accurate results. Generally a 1kHz test frequency is used to measure capacitors that are $0.01\mu F$ or smaller. For capacitors that are $10\mu F$ or larger, a lower frequency of 120Hz is used. Following this trend, high-test frequencies are best for testing very low capacitance components. For large capacitance components, low frequency would be optimal.

For example, if the capacitance of the component is in the mF range, then selecting 100Hz or 120Hz for the test frequency would give more accurate results. The results will also be obvious because if the same component was tested with 1kHz or 10kHz, the measured readings may look erroneous on the display. In all cases, it is best to check with the manufacturer's data sheet in order to determine the best test frequency to use for measurement.

Inductance

Typically a 1kHz or 10kHz test frequency is used to measure inductors that are used in audio and RF circuits because these components operate at higher frequencies. However, a 120Hz test signal is used to measure inductors that are used for applications such as filter chokes in power supplies, which are typically operated at 60Hz AC (in US) with 120Hz filter frequencies. In general, inductors below 2 mH should be measured at 1kHz frequency while inductors above 200H should be measured at 120Hz. In all cases, it is best to check with the manufacturer's data sheet in order to determine the best test frequency to use for measurement.

Selecting Test Frequency

The meter has five test frequencies: 100Hz/120Hz/1kHz/10kHz/100kHz. Press the **FREQ** button to scroll through the five frequencies sequentially.

Note: The test frequency can affect the accuracy of the results depending on what frequency is selected as well as what type and value of component is being measured or tested.



Primary Impedance with Secondary Parameter Test

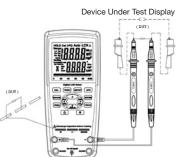
The default test mode for this meter is Auto-LCR Mode, which checks the type of impedance and automatically enters L/C/R Mode. The secondary parameter will follow the L/C/R measurement, meaning that (L+Q), (C+D)*, $(R+\theta)$ ** are combined in one group respectively.

 Press the **FUNC** button to switch from Auto-LCR Mode to Auto-Lp Mode, Auto-Cp Mode, Auto-Rp Mode, and DCR Mode.

Note: When Auto-Lp or Auto-Cp Mode is selected, the impedance measurement is auto ranging. The primary LCD display will show the inductance or capacitance of DUT (device under test); while the secondary LCD display will show the quality or dissipation factor.

- Press the

 | button to display the D/Q/θ/ESR value. When Auto-R
 (ACR mode) or DCR mode is selected the secondary parameter
 is omitted.
- * When Auto-LCR mode is active, the secondary parameter will show the equivalent resistance in parallel mode (Rp) to replace the D factor if the C measured value of the DUT is less than 5pF.
- ** Auto-LCR mode only. During Auto-R Mode or DCR Mode, the secondary parameter is not available.



Series or Parallel Functions

Just as test frequency can greatly affect measurement results, selecting between series or parallel measurement mode can also affect the accuracy of the meter, especially for capacitive and inductive components. This section provides some recommendations and suggestions to consider.



Capacitance

Most capacitance measurements will obtain best results with parallel mode selected. The majority of capacitors have a very low dissipation factor (high internal resistance) compared to the impedance of the capacitance. In these cases, the paralleled internal resistance has negligible impact on the measurement. There will be some cases where series mode would be used for a capacitance measurement, or the readings will appear inaccurate. Series mode is useful when large capacitors have higher dissipation factor and lower internal resistance.

Inductance

Most inductance measurements will obtain best results with series mode selected. In series mode, accurate Q (quality factor) readings can be obtained from reading low Q inductors and ohmic losses are significant. There will be some cases where parallel mode would be used for an inductance measurement, for example iron core inductors operating at higher frequencies where hysteresis and eddy currents become significant.

Series / Parallel Measurements

When any L/C/R function is selected, the default measurement will be automatically selected. If the impedance is greater than $10k\Omega$, parallel mode will be selected, and "Lp/Cp/Rp" will display on the LCD screen. If the impedance is less than $10k\Omega$, series mode will be selected, and "Ls/Cs/Rs" will display on the LCD. When the Parallel/Series/Right Button is pressed, the impedance measurement will be set in series mode or in parallel mode sequentially.

Data Hold

- While taking a measurement, press the HOLD button to freeze the current readings on the display.
- 2. While in this mode a "HOLD" symbol will appear.
- 3. Press the button again to resume normal operation.

Note: When the Data Hold feature is active all buttons except the power & backlight buttons are disabled.



Relative Mode

- 1. To reserve the current DUT readings (DCUR) on the primary display as a reference value (DREF), press the ▼ button.
- The Δ symbol will then appear on the LCD screen indicating this function is now active. The secondary display will show the percentage of the relative value (REL%).
- Press the ▼ button again to show the reference value (DREF) on the primary display; the Δ symbol will start to blink.
 REL% = (DCUR – DREF) / DREF x 100%

Note: The percentage range is -99.9% to 99.9%. When the relative value is larger than double the reference value (DREF), the "OL%" symbol will appear on the secondary display.

 Press and hold down the ▼ button for approximately 3 seconds to exit relative mode and resume normal operation.

Accuracy Discrepancies

In some special cases, inaccuracies may occur in the measurement of capacitive, inductive, and resistive components. This section provides some recommendations and suggestions to consider.

Capacitance

It is strongly recommended to have the dissipation factor low when measuring capacitors. Electrolytic capacitors inherently have a higher dissipation factor due to their normally high internal leakage characteristics. In some cases, if D (dissipation factor) is excessive, measurement accuracy may degrade and even read out of specification.

Inductance

Some inductors are intended to operate at a certain DC bias to achieve a certain inductance value, however this meter cannot produce such a biasing scheme. External biasing should not be attempted because external power would be applied to the instrument and cause serious damage to the meter. Therefore, in some cases, the inductance reading may not agree with manufacturer's specification. It is important to check if the specification pertains to DC biasing or not.



Resistance

When measuring resistance of devices, it is important to know that there are two types or ways of measurement. One type is DC resistance measurement. Another type is AC resistance measurement. The LCR meter provides both types of measurement.

Before using the meter to measure resistance, please verify whether the DUT (device under test) requires DC or AC resistance measurement method. Depending on the method, results will vary greatly.

Guard Terminal

One of the input sockets and terminals is labeled as "GUARD". This terminal does not have to be used in all instances for the meter to provide measurements. But in some instances, it is very useful. Guard terminal generally serves two purposes.

If user is using test leads, the guard terminal can be used to connect to the shielding of the test leads. Doing so can be useful when making large resistive component measurements. For example, when measuring a 10 $\,$ M Ω resistor with test leads, at the high range the reading may seem to be unstable as a few digits may continuously be changing. Having the shield of the test leads connected to the guard terminal will help stabilize the reading in some instances.

Guard terminal is also used to minimize noise and to help minimize parasitic effects coming from the component being measured, thus allowing high precision results.

Calibration Mode

It is recommended to regularly calibrate this meter to improve the accuracy of high/low impedance measurements.

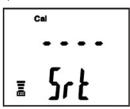
Note: You will need a shorting bar or a short piece of conductive metal (i.e. paper clip) to complete the calibration procedure.

- 1. Be sure nothing is connected to the meter, and turn it on.
- Press and hold down the CAL button for 2 seconds to enter calibration mode.
- The screen will display "OPEN", indicating the input terminals have nothing connected.



- Press the CAL button again and a 30 second countdown will appear on the screen.
- After the countdown is complete, a "PASS" or "FAIL" will show on the display.
- Press the CAL button a third time, and "SRT" will appear on the LCD screen, indicating to the user to put the shorting bar across the "+" and "-" input terminals.
- Press the CAL button a fourth time, and a 30 second countdown will appear on the screen.
- After the calibration procedure is finished a "PASS" or "FAIL" will appear on the LCD screen.
- Press the CAL button a fifth time and the calibration data will be saved if "PASS" was displayed for both the Open & Short calibrations.





Open Calibration (left) and Short Calibration (right)

Sorting Mode

Sorting mode helps the user quickly sort through multiple components. Select the primary measurement mode (L/C/R) based on the type of components to be measured. Insert the component to be used as the standard or good reference value that will be used for testing against all other components.

Note: The meter needs a component connected to either the input sockets or terminals for sorting mode to activate.

- When ready, turn the meter on and press the **SORTING** button to enter sorting mode.
- The upper display will indicate "PASS" and the lower display will indicate the value of the component.

Note: The default sorting % is +/- 1%.



- Press the SETUP button and the "Range" symbol will flash on the display.
- Adjust the range setting by pressing the ◀ or ▶ buttons
- Press the ENTER button save the range setting and proceed to the value setting.
- Press the ◀ or ▶ buttons to select the flashing digit required for adjustment. Press the ▲ or ▼ button to adjust the value of the digit.
- Press the ENTER button to save the value setting and proceed to the Tolerance setting.
- Press the ◀ or ▶ buttons to scroll through following tolerance % values.
 ±0.25%
 ±5%
 - 2) ± 0.5% 6) ±10%
 - 3) $\pm 1\%$ 7) $\pm 20\%$
 - $4) \pm 2\%$ 8) -20% +80%
- 9. Press the **ENTER** button to save the Tolerance setting.
- The upper display will now indicate "PASS" or "FAIL", depending on whether the impedance measured exceeds tolerance range. The current measurement result will display on the lower display.
- 11. Press the **SORTING** Button to exit Sorting Mode.

Battery Replacement

The battery icon indicates the power status of the batteries. As the batteries weaken, the number of lines will decrease. When the battery icon appears on the LCD, the batteries must be replaced.

To replace the batteries:

- Remove the four screws under the flip stand located at the rear of the meter.
- 2. Lift up the battery cover and replace the 6 x "AA" batteries
- 3. Secure the cover back into place with the four screws.



Accessories and Replacement Parts

- R1210 Alligator Clip Set
- R1020 Fused Test Lead Set
- R8888 Deluxe Hard Carrying Case
- CA-05A Soft Carrying Case

Don't see your part listed here? For a complete list of all accessories and replacement parts visit your product page on www.reedinstruments.com.

Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- · Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.



Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at info@reedinstruments.com to discuss the claim and determine the appropriate steps to process the warranty.

Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at info@reedinstruments.com.

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