HOGGAN SCIENTIFIC, LLC.

ergoFET® 500

Push Pull Force Gauge

User Manual

Table of Contents **Page**

What Is Included 3
Warnings and Precautions 4
Directions for Use 4
Operating Features 4
General Use 6
Data Retrieval Mode (Saved Tests) 7
Wireless Operation 8
Threshold Settings 9
Force Measurement Setting 9
Battery Check 9
Testing 10
Low Battery 13
Charging Battery 13
Replacing Battery 13
Storage and Transporting 15
Service/Maintenance/Cleaning 15
Calibration 15
Warranty 15
Customer Service and Repairs 16
Ordering Replacement Parts 16
Specifications 16
Graphic Symbols and Definitions 18
Manufacturer Information 18

ergoFET®500 System

DESCRIPTION

The ergoFET®500 is a digital force gauge for measuring compression and tension forces, up to maximum force capacity 500 pounds.

HOW SUPPLIED

- ergoFET®500 Wireless Digital Force Gauge (5065)
- Two (2) Round Aluminum Handles
- Large Flat Round Transducer Pad
- Large Rectangular Curved Transducer Pad
- Flat Rectangular Transducer Pad
- Small Flat Round Transducer Pad
- # 2 Clasp Hook
- 16 Inch Nylon Strap with D Rings
- Rechargeable Lithium-ion Battery
- Power Supply (Battery Charger)
- QR Code Sheet for Product Instructions (IFU)
- Calibration Certificate
- Carry Case
- Optional – Bluetooth/FET Stick (included with available optional software package)

ergoFET®500 supplied in carry case (See Figure 1.)

Figure 1. ergoFET®500 in supplied carry case

WARNINGS AND PRECAUTIONS:

- **The ergoFET®500 device should only be used by trained professionals.**
- **The ergoFET®500 and accessories are provided non-sterile and are not compatible with autoclave or other sterilization techniques. Do not autoclave.**
- **ergoFET®500 devices are not intended for use while charging. Never attempt to operate the instrument while it is connected to the power source as electrical shock or damage to the instrument may occur.**
- **The ergoFET®500 device is not protected against ingress of liquids. Keep device dry. Do not immerse the ergoFET®500 device or accessories in water.**
- **When in use device should be used on top of clothing.**
- **Discontinue use of any product if skin irritation develops.**
- **The ergoFET®500 is a precision device. Device should be treated with care. Do not drop, bang or hit or cause other impact to the device.**
- **Not recommended for use in extreme temperatures.**
- **Applied part is ergoFET®500 device with a transducer pad attached.**
- **Do not dispose of ergoFET®500 device in fire. ergoFET®500 device contains lithium-ion battery.**
- **Device is not known to contain any hazardous materials. For proper disposal instructions, consult your local waste management facility. Recycling should be used where available.**
- **Hoggan Scientific ergoFET®500 and USB dongle should not be used while stacked on, or adjacent to, other electrical equipment. If ergoFET®500 is stacked or adjacent to other electrical equipment; all electrical equipment should be checked to confirm normal operation.**
- **Rechargeable lithium-ion battery is only serviceable part.**
- **Do not service the battery while in use with patient.**
- **Making any modifications or using any accessories not specifically approved by Hoggan Scientific, LLC may void the warranty as well as reduce immunity to electromagnetic interference, or increase electromagnetic emissions, and result in improper operation.**
- **The use of portable and mobile Bluetooth (RF) equipment:**
  - **A. Can possibly affect medical electrical equipment normal operation.**
  - **B. The RESPONSIBLE ORGANIZATION (Professionals) should identify, analyze, evaluate and control related risks.**
  - **C. RESPONSIBLE ORGANIZATION - Changes to IT Network (Updates or upgrades to the ergoFET®500 device, changes to the IT Network Configuration, connections, or disconnections of items to the IT Network) could introduce new risks that require additional analysis.**
- **Electrical Equipment needs special precautions regarding EMC. ergoFET®500 needs to be installed and put into service according to the information provided in this manual.**

WARNING:
The gauge is designed for axial loads only. Do not apply side loads to the load cell transducer and shaft. Applying side loads could cause damage to the unit and may increase the risk of operator injury. Take precautions to ensure load is applied axially.

DIRECTIONS FOR USE

OPERATING FEATURES

Keypad Buttons (Reference Keypad buttons in Figure 2).

- On/Reset Keypad Button:
  - Turn On Device: Press On/Reset keypad button once to power on ergoFET®500.

- Reset: Press On/Reset keypad button to activate the ergoFET®500 and reinitialize the device for testing. It is not necessary to On/Reset keypad button after each test but may be necessary to clear false readings caused by static discharge.

- Power Off Device: ergoFET®500 device automatically powers off after 3 minutes of non-use. To power device on press On/Reset button once.
- Sleep Mode – The device enters a low power mode after being left on for three minutes. The device can be awoken by pressing the On/Reset button.
- Avg Keypad Button: Press avg keypad button to display average force for duration of test for either Un-timed or Timed (Static Strength Test) operating modes.
- Threshold Keypad Button: Controls the amount of force required when the ergoFET®500 device begins and ends recording of test data. Selectable two low and two high threshold settings.
- Unit of Measure Keypad Buttons: Selectable Lbs (pounds), N (newtons), kgs (kilograms) keypad buttons for force output unit of measure reading.

Figure 2. Keypad Buttons

LCD Window

The LCD Window (See Figure 3) displays easy to read test results, either peak force or average force depending on the selected operating mode. Results are displayed in whole numbers or decimal measures in tenths, depending on the threshold level selected.

Figure 3. LCD Window

GENERAL USE

- Read all instructions before use.
- When using the ergoFET®500 force gauge, make sure to apply the load axially to the load cell transducer and shaft. Keep the gauge perpendicular to the item being measured to ensure axial loading.
- The ergoFET®500 can be used with or without handles. For high force load capacity testing, screw handles into each side of force gauge housing (See Figure 4).

Figure 4. Affix Handle

- A variety of attachments are provided to accommodate a wide variety of compression and tension test applications. When affixing test attachments to the load cell shaft, screw the appropriate attachment into the shaft by hand, and tighten until finger tight. Do not overtighten and do not use tools to secure or tighten the test attachments. Finger tight torque is sufficient for all attachments (See Figure 5). Over-tightening may damage the load cell.

Figure 5. Affix Attachment

- Press on/rest button to power on device.
- Begin test with device by applying force, load. Live force readings will begin displaying in LCD windows on device when force applied goes above the selected threshold setting.
- End of the test occurs when the force goes below the threshold setting. Peak force displays in LCD window (See Figure 6).

Figure 6. Force Measurement Value

- To begin another test, apply force, load with device. The device will automatically clear previous test result and begin recording data for new test. Pressing the On/Reset button will also clear previous test results and display zeroes in LCD window for start of new test.
- Following are examples of the ergoFET®500 force gauge in use, for performing tension (pull) tests and compression (push) tests, with handles (See Figures 7 and 8).

Figure 7. Tension/Pull Test

Figure 8. Compression/Push Test

- Up to 30 previous stored test results can be accessed. See Data Retrieval Mode instructions below.

DATA RETRIEVAL MODE (View Saved Tests)

- To put the unit in data retrieval mode, hold down the N (Newtons) keypad button and press and release the On/Reset keypad button once.
- The LCD display will show the test number (1), for last or most recent test (See Figure 9).

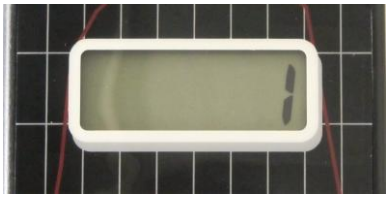

Figure 9. Test Number

- To show force reading for test number displayed, hold down LBS keypad button (See Figure 10).

Figure 10. Saved Recorded Test

- Press the N (Newtons) keypad button to scroll forward through saved tests.
- Press the AVG keypad button to scrool backward through the tests.
- Press On/Reset to return to test mode.
- To delete or clear saved tests in memory storage, hold N (Newtons) keypad button down and press and release the On/Reset keypad button 2 times.

ergoFET®500 WIRELESS OPERATION

The ergoFET®500 may wirelessly transfer data to optional software if desired. Wireless mode setting operation can only be used in conjunction with purchased software.

- To turn on Bluetooth wireless module, hold down the KGS keypad button, press and release the On/Reset keypad button.
- Display will show Bluetooth wireless module ON or OFF in the display screen. To turn on wireless module, press the KGS keypad button. Display will now show Bluetooth wireless module turned ON (See Figure 11).

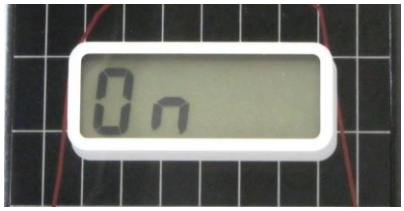

Figure 11. Wireless Function On

- Press On/Reset keypad button to return display to test mode.
- When Bluetooth wireless module is turned on, a left decimal point will show on the LCD display (See Figure 12).

Figure 12. Wireless Mode Decimal Point Indicator

The decimal point will blink in display on gauge when connected wirelessly to Bluetooth receiver stick .

- To turn off the Bluetooth wireless mode, hold down the KGS keypad button, press and release the On/Reset keypad button.
- Display will show Bluetooth wireless module ON in the display screen. To turn OFF, press the KGS keypad button. Display will now show Bluetooth wireless module turned OFF (See Figure 13).

Figure 13. Wireless Function Off

- Press On/Reset keypad button to return display to test mode.

NOTE: The ergoFET®500 does not save test data when the Bluetooth wireless module is turned on.

THRESHOLD SETTINGS

Four selectable threshold settings allow testing flexibility for a variety of applications. Low Threshold settings are for small or sensitive force measurements. Selecting a higher threshold minimizes the potential for false starts or accidental movement of the gauge.

The four preset threshold settings are as follows:

LCD Window

1. Low #1 (L1): Tension and Compression at 1.0 lbs.
2. Low #2 (L2): Tension and Compression at 2.0 lbs.
3. High #1 (H1): Tension and Compression at 5.0 lbs.
4. High #2 (H2): Tension and Compression at 10.0 lbs.

Example: If threshold High #1 (H1) - 5 lbs. is selected, the gauge will begin recording test data when the load cell has detected 5 lbs. of force. The load cell will continue to record test data until the force drops below 70% (in this case, 3.5 lbs.) of the threshold setting. The test will then end and data is no longer recorded.

Setting Threshold Setting

Depress the Threshold button to select the desired threshold setting. If a "L1" is displayed, this is low setting #1 (1.0 lbs. – tension and compression) (See Figure 14). Each time the Threshold button is depressed the gauge will toggle through to the next preset threshold setting. (L2, H1, H2).

Figure 14. Threshold Setting Indicator

FORCE MEASUREMENT SETTINGS

The ergoFET®500 has dedicated unit keys for selecting unit of measure. The gauge measures either the force load, and displays results in Pounds, Kilograms or Newtons. Depress the desired unit of measure keypad for unit of measure output required. The ergoFET®500 will display test results in the unit of measure selected.

BATTERY CHECK

- With device powered on in un-timed test mode, hold the LBS button down, press and release the On/Reset button once.

- The unit will then display battery power level in LCD display. Power level reading will display number from 1 to 100, indicating the percent of power remaining in the battery. (See Figure 15).

Figure 15. Battery Check Indicator

- The device will return to normal display/test mode after five seconds.

TESTING

Un-timed Test Operation Mode:

Active Force Reading
The LCD window continuously displays the active (or live) force reading for the duration of the test. The active force display begins when the force exerted reaches the selected threshold setting. The active display will end when the force applied drops below 70% of the threshold setting, or the test has stopped. The Active force display applies to both peak force and average force operating modes.

Peak Force - Tension and Compression
In the Un-Timed Test Mode, perform your push or pull test. During the test, active force readings will be displayed. At the end of the test, a final value will be displayed (See Figure 16). This is the maximum (peak) force measured by the ergoFET®500 for the test performed. Peak force is commonly used to measure the force required to complete a task. For example, peak force is necessary to understand the force required to raise the hood of an automobile or a patient performing a pull test.

Figure 16. Peak Force Measurement

Average Force
At the conclusion of any push or pull test, Peak Force is displayed. To obtain the Average Force reading exerted for the entire duration of the test, depress the Avg button once. Average force will be displayed for 5 seconds (See Figure 17). After 5 seconds, the gauge will return to displaying peak force. To view the average force again, simply depress the AVG button. The average force measurement is generally used to measure continuous tasks, such as pushing or pulling a cart across a given distance or sliding an object across a smooth surface.

Figure 17. Average Force Measurement

Average Force After Peak
In untimed test mode, at the end of a test, the average after peak for sustained force can be displayed. To obtain the average force reading after peak force has been reached, hold down the AVG keypad button, then press the N keypad button to display Average Force After Peak (See Figure 18).

Figure 18. Average After Peak

Timed Test Operation Mode (Static Strength Test)

Setting ergoFET®500 To Timed/Static Strength Test Mode
To set the gauge to the timed or static strength test mode, depress the Avg. Button, and while holding down the Avg Button, depress and release the On/Reset Button. When the static strength test begins, four zeros - "0000" will appear in the display window. Then the display will cycle through "1, 2, 3, 4" as the gauge counts the 5 seconds required for the timed test. At the conclusion of the 5 second test, the Peak Force is displayed. This signals the end of the test.

Performing Static Strength Test
For static strength testing, selecting a higher threshold setting will minimize the potential for false starts or accidental movement of the gauge. The ergoFET®500 is an ideal gauge for Static Strength Testing.

To prepare the unit for Static Strength Testing, screw the two 1" Diameter 4 7/8" long handles snugly into the sides of the gauge and attach the Small Snap Eye Hook onto the input shaft. Check to make sure the attachments are finger tight.

Have the patient hold the ergoFET®500 so the evaluator can view the display. Ensure that the patient is properly positioned, and given instructions for testing. Before handing the patient the ergoFET®500, set the gauge to the Timed/Static strength test mode; attach the ergoFET®500 to the appropriate chain link and place it in the patient's hands. The ergoFET®500 will now read the weight of the chain which is part of the weight the patient is lifting.

To begin a test, instruct the patient to begin pulling. When the force exerted passes the threshold value selected, the 5 second countdown will begin. The LCD will display "0000", then the display will cycle through "1, 2, 3, 4" as the gauge counts the 5 seconds required for the timed (See Figure 19). At the end

of the five second test, the peak force is displayed. This signals the end of the five second static strength test. Instruct the patient to immediately stop pulling. The ergoFET®500 should be taken from the patient between exertions so they can relax the tested muscles for a full 30 seconds.

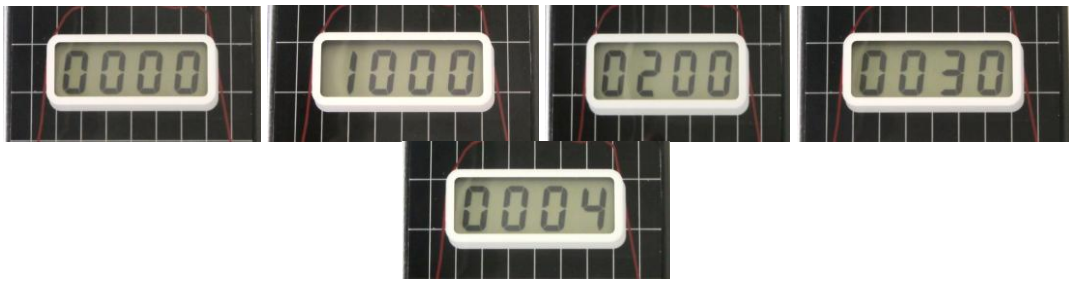

Figure 19. Number Indicators for Seconds-Time

Peak Force

At the end of the five second timed/static strength test, the peak force recorded for the test is displayed (See Figure 20).

Figure 20. Peak Force Timed Test

Average (Last 3 Seconds of 5 Second Test)

To display or show the average force of the last three seconds of the five second test performed, depress the Avg button once. The average force is displayed. After 2 seconds, the gauge will default back displaying peak force. To view the average force again, simply depress the Avg button.

To reset gauge back to Un-Timed Test Mode, depress the Avg Button, and while holding down the Avg Button, depress and release the On/Reset Button. This will set the gauge to the un-timed test mode. To return to the Timed Test Mode, simply repeat the process. Depress and hold the Avg Button and depress and release the On/Reset Button.

Muscle Testing

The ergoFET®500 has some limitations for Manual Muscle Testing. The number of muscles that can be tested depends largely on evaluator strength. The ergoFET®500 is a large gauge and is difficult to hold in one hand while performing either a Break Test or a Make test. Therefore, some practice will be necessary to develop a technique which works well for each evaluator.

To perform muscle tests, select the appropriate Muscle Testing attachment and screw it into the input shaft.
Muscle Test Attachments:

Large Round Transducer Pad and Large Rectangular Curved Pad – Large Muscle Groups.
Flat Rectangular Transducer Pad – Fingers and Toes as a Group
Small Flat Round Transducer Pad – Individual finger and toe tests

LOW BATTERY INDICATOR

Blinking readings or units in LCD display indicates that ergoFET®500 battery power may be low. If LCD reading or units remain blinking after pressing Reset, the battery should be recharged.

CHARGING BATTERY

ergoFET®500 uses (1) rechargeable Lithium-ion battery. To charge battery, insert the barrel connector of the wall pack charger into the power connector on the side panel of the housing of the device, and wall pack charger into electrical outlet to charge (See Figure 21).

Figure 21. Power Connector

To see if battery has completed charging, with the ergoFET®500 still connected to the wall pack charger plugged into the electrical outlet, view the LCD display. Battery is fully charged when the power reading in display shows 100 or 100% charged, with device is turned on. If the device is turned off, press On/Reset keypad button to show battery power level charge. Estimated time required to recharge battery to 100% is three (3) hours.

REPLACING BATTERY

If the rechargeable lithium-ion battery ever needs replacement, the battery is accessible by removing the display cover of the device to access and change the rechargeable battery. To change the battery:

1. Using a 7/64 inch hex head Allen wrench, loosen the screws on the on the back side of the device (See Figure 22).

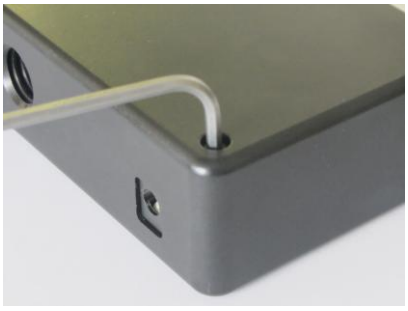

Figure 22. Screw Removal

2. With the screws located on the side panel of the housing that does not have the jack for the AC adapter, push the screws in with the Allen wrench, to push up or raise the top display panel from the housing on that side of the device (See Figure 23).

Figure 23. Top Display Panel

Do not raise the top display panel on the other side of device. The top panel display is connected to the electronic board on that side.

3. Carefully lift up and pull out the top panel display from the main housing (See Figure 24).

Figure 24. Top Panel Removal

4. Lay the top display panel down flat on surface The blue rechargeable battery is secured in battery holder on electronic board (See Figure 25).

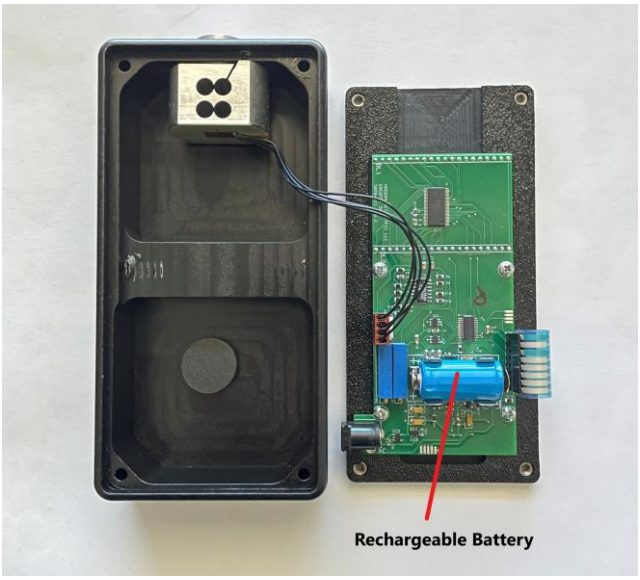

Figure 25. Rechargeable Battery

5. Carefully remove the battery from the holder. When installing a new battery, make sure the positive (+) post aligns with the (+) mark on the battery holder. Place the top display panel back onto the housing and seat properly. Tighten down screws on back side of housing.

If LCD segments in display do not light up after properly installing a new charged battery, please contact Hoggan Scientific LLC Customer Service Department at 1-800-678-7888 / 801-572-6500.

STORAGE AND TRANSPORTING

The ergoFET®500 is provided with a hard sided protective carry case. It is recommended to keep the device in this case when in transportation or when not in use. Store the device in a cool dry location.

SERVICE, MAINTENANCE, AND CLEANING

Your ergoFET®500 is built to provide long lasting, reliable service. As with any precision instrument, it should be used with care. It should not be dropped, banged against hard surfaces, or used as scale.

The exterior surface of the ergoFET®500 can be cleaned with soft cloth dampened with clean water. We recommend that you periodically inspect your device for wear, and proper functioning.

Caution: Do not immerse ergoFET®500 or accessories in water or other fluids or liquids. Device is not protected against moisture, water, or liquids.

DEVICE DISPOSAL:

Follow electronic device disposal guidelines when disposing of used device. There are no special risks related to the disposal of these devices.

USE LIFE:

The ergoFET®500 is designed to provide long lasting reliable service. Improper use, dropping, banging or mistreatment of the device will likely shorten its functioning Use Life.

CALIBRATION:

The ergoFET®500 comes with calibration certificate, ensuring that the device was properly calibrated at the time of shipment. To ensure continued accuracy and reliability, your ergoFET®500 device should be recalibrated annually, by properly authorized Hoggan Scientific, LLC service technicians.

WARRANTY

The ergoFET®500 is warranted for a period of three (3) years from the time of purchase. If the ergoFET®500 fails to operate because of defect in materials or workmanship at any time within three (3) years of the purchase date, it will be repaired free of charge by Hoggan Scientific LLC. (return shipping not included).

WARRANTY REGISTRATION

To ensure your warranty is in force, please visit the website and complete your online product warranty registration at https://hogganscientific.com/warranty-registration/. Please save proof of your original purchase information for reference, such as your sales order, invoice, credit card voucher, or cancelled check to establish the warranty period.

WARRANTY REPAIRS

Before deciding that your ergoFET®500 is inoperable or defective, please review and follow the information in this instruction booklet.

In the unlikely event your ergoFET®500 becomes inoperable, please contact Hoggan Scientific, LLC to arrange to have the equipment repaired. Hoggan Scientific, LLC reserves the right to repair or replace the device with new or refurbished parts or equipment**.**

Hoggan Scientific Customer Service Department can be contacted at 800-678-7888, or by email at sales@hogganscientific.com. When Hoggan Scientific Customer Service Representative authorizes return of the product, you will be given Return Merchandise Authorization (RMA) number. Please include

the RMA number with your device. For confirmed warranty repairs, the customer is responsible for the applicable shipping costs and shipping to Hoggan Scientific.

WARRANTY EXCLUSIONS AND LIMITATIONS

The ergoFET®500 warranty does not cover damage by negligence, misuse, or accident. Damage or device failure caused by modifications or repairs other than those approved by Hoggan Scientific, LLC or its authorized repair agent, or damage to equipment resulting from improper installation or operation is not covered. Any warning or instructional labels or decals must remain on the device for the warranty to be valid.

This warranty applies to the original purchaser. Some states do not allow the exclusion or limitation of incidental or consequential damages, in which case the exclusions and limitations may not apply. This warranty gives specific legal rights, and may also have other rights, which vary from state to state. To determine the legal rights in your state, consult your local or state consumer affairs office or State Attorney General.

CUSTOMER SERVICE AND REPAIRS

Customer satisfaction is important to Hoggan Scientific, LLC. We are happy to assist with questions, problems, or service issues on any Hoggan Scientific products you may own. Our business has grown on the basis of excellent product quality and customer satisfaction. Our fulltime customer service representatives are available from 7:00 am to 4:30 pm MST Monday-Thursday MDT, and 7:00 am to 1:30 pm Friday, MDT at 800-678-7888/801-572-6500 to meet your needs.

You can also contact Hoggan Scientific online regarding your customer service issue or calibration needs by e-mailing to sales@hogganscientific.com.

Service life of device is 10 years. End of service life is determined by date of first completed calibration of device.

ORDERING REPLACEMENT PARTS

Hoggan Scientific Products are manufactured to exacting specifications. When replacing worn or damaged parts, use only original parts supplied by Hoggan Scientific. The use of substitute or unauthorized parts will void your warranty and may increase the possibility of injury to the user or cause additional damage to the device.

When ordering Replacement Parts, please take the device out of service, and complete the following:

- Identify the brand, model, and serial number, and note the device function.
- Identify and document the problem and the worn or missing parts.
- Contact Hoggan Scientific LLC. Replacement parts (attachments) will be shipped directly from Hoggan Scientific.

All repair services will be performed at Hoggan Scientific LLC Manufacturing plant.

Except for replacing battery, do not attempt to repair device. Attempted repairs will void all warranties.

Batteries and replacement parts can be ordered either by calling Hoggan Scientific LLC, or order online at www.hogganscientific.com.

ergoFET®500 SPECIFICATIONS:

- Weight: 1.08 lbs. (without aluminum handles or transducer pads, attachments.) 1.86 lbs. with aluminum handles affixed.
- Dimensions: 6" Height x 2 " Width x 1 3/8" Depth
- Operation Use Time:
  - Non-wireless mode – 90 hours continuous.
  - Wireless mode – 6 hours continuous.
- Internal Power Source – Battery: Model ICR14520 user serviceable, 3.7 volt 1/2 AA lithium-ion rechargeable battery 280 mAH.

- Controls: On/Reset, Average, Threshold, Units of Measure.
- Transportation, Storage and Operating Conditions:
    - Temperature: 52 - 92 degrees Fahrenheit (11 – 33 degrees Celsius).
    - Humidity: 30-80% non-condensing.
    - Atmospheric Pressure: 800 hPA – 1060 hPA. (11.60 psi – 15.37 psi).
- Input Power: 5V 1.0A
- Recharge Time: Three (3) continuous hours of charging.
- Power Supply: Input - 100-240V. Output – 1A. 5 volt DC regulated
- Maximum Force Capacity: 500 lbs Tension and Compression (136 kgf / 1320 Newtons). Test Range: At Low Threshold (Low# 1) 1.0 lbs to 500 lbs in 0.1 lb. increments. Metric Newtons: 3.6N to 1320N in 0.4N increments. KGF (kilograms force): 0.4kgf to 135kgf in .1kgf increments.
- Threshold Setting: 4 selectable threshold settings - 2 low and 2 high:
    - Low #1 (L1): Tension and Compression at 1.0 lbs.
    - Low #2 (L2): Tension and Compression at 2.0 lbs.
    - High #1 (H1): Tension and Compression at 5.0 lbs.
    - High #2 (H2): Tension and Compression at 10.0 lbs.
- Auto Power Shutoff after 3 Minutes
- Unit of Measure: Selectable in Pounds (lbs), Newtons (N), or Kilograms (kg).
- Data Storage: Stores 30 most recent tests.
- Wireless Frequency Operating Distance: 25 feet / 7.6 meters from receiver, indoor environment.
- Accuracy: Within 1% of reading.
- Data Storage Stores 30 most recent tests.
- FCC ID: X8WBC805M.
- Radio Frequency: 2.4 GHz.

TECHNICAL ASSISTANCE:
For further assistance, contact Hoggan Scientific at:
Phone: 800-678-7888 / 801-572-6500
Email: sales@hogganscientific.com
Website: www.hogganscientific.com

GRAPHIC SYMBOLS AND DEFINITIONS

Device will not work when connected to a power source	Device is provided non-sterile	Attention, See Instructions for Use	Model number	Serial Number	Keep Dry	Manu-facturer
IPX0						
Do not wet the device	Class II Electrical Equipment	Type B applied part – External Body only contact	FCC Com-pliant Device	Radio Fre-quency	Direct Current	

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ergoFET®500 is a registered trademark of ***Hoggan Scientific, LLC***.
Bluetooth is a registered trademark of the Bluetooth Special Interest Group (SIG).

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