

SPECIFICATIONS

ACCURACY: $\pm 1\%$ (Typical)
RESOLUTION: 1 mG/10 mG
OPERATING/STORAGE TEMPERATURE RANGE:
14°F to 122°F (-10°C to +50°C)
SIZE: 2.4" (61 cm) wide x 3.8" (96.5 cm) long x 1" (25.4 cm) thick
BATTERY LIFE: (Carbon/Zinc)
230 hours, continuous
WEIGHT: 4.5 oz (126 g) with battery
WARM-UP TIME: 5 seconds

WARNINGS

Care should be taken to keep the ELF METER away from any chemicals and extreme heat that could cause discoloration and/or weakening of the plastic. Avoid dropping or hitting the case. This could damage the case and/or the circuitry. Clean the case with a damp cloth only. Do not use alcohol or commercial cleaning agents.

91012.5S

MODEL 4060 ELF METER NINETY (90) DAY LIMITED WARRANTY

WARRANTOR: F.W. Bell, Inc. ("Bell")

ELEMENTS OF WARRANTY: Bell warrants to the original purchaser, for the duration of this Warranty, its Model 4060 ELF METER (hereinafter referred to as the "Product") to be free from defects in materials and workmanship with only the limitations or exclusions set out below. Bell reserves the right to make changes in the design of its ELF METERS without incurring the obligation to upgrade units manufactured prior to that time.

WARRANTY DURATION: This Warranty shall terminate and be of no further effect ninety (90) days after the date of the original purchase of the Product or at the time the Product is (i) damaged or not maintained as reasonable and necessary, (ii) modified, (iii) repaired by someone other than Bell for a defect or malfunction covered by this Warranty, (iv) used in a manner or purpose for which the Product was not intended, or (v) sold by the original purchaser.

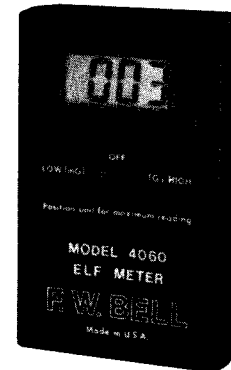
STATEMENT OF REMEDY: In the event that the Product (excluding batteries) does not conform to this Warranty at any time while this Warranty is effective, Bell will repair the defect and return the Product to you without charge for parts, service or any other costs incurred by Bell or its representatives in connection with the performance of this Warranty. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OF PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, or do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: In the event that the Product does not conform to this Warranty, the Product should be shipped or delivered in appropriate packaging, freight prepaid, to Bell at 6120 Hanging Moss Road, Orlando, Florida 32807 with evidence of original purchase.

LEGAL REMEDIES: This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

WARRANTY INFORMATION: For information on your Warranty, contact the Warranty Department at (407) 678-6900, or write Bell at 6120 Hanging Moss Road, Orlando, Florida 32807.

ENG. COPY



OPERATION
MANUAL

MODEL 4060
ELF METER

1-15-91

F.W. BELL

UN-01-192

359190

OPERATION MANUAL FOR MODEL 4060 ELF METER

The Model 4060 ELF METER is designed to measure Extremely Low Frequency ac magnetic fields. Both 60 and 50 Hz (hertz) models are available. The ELF METER is very easy to use and requires no calibration or zeroing by the user.

Your ELF METER will measure magnetic fields from any source, such as: power lines, computers, television sets, electric blankets, microwaves, coffeemakers, and virtually any device powered from an ac outlet.

Your ELF METER uses proven reliable circuitry developed by F.W. BELL, INC., who has been manufacturing Gaussmeters (magnetic field measuring instruments) for over forty years and is recognized worldwide as the leader in this field.

The ELF METER has a 3½ digit LCD display to indicate the field level in either milligauss (on the LOW range) or gauss (on the HIGH range).

FUNCTIONAL DESCRIPTION

The ELF METER is housed in a small, lightweight, plastic case, measuring 3.8" tall by 2.4" wide by 1" thick. It operates on one 9 V carbon/zinc transistor battery. Battery life is typically 230 hours with continuous use. Note: Because of the sensitivity of the ELF METER, use of batteries other than carbon/zinc may affect the reading.

1. DISPLAY

The front panel display is a 3½ digit LCD display.

2. RANGE SWITCH

The range switch is a three-position slide-switch.

Left Position: LOW (milligauss) range

Center Position: OFF

Right Position: HIGH (Gauss) range

3. LOW BATTERY INDICATOR

A low battery condition is indicated by a battery symbol appearing in the upper left corner of the display. When this symbol appears, replace battery at once. Accuracy of the ELF METER is affected when the symbol appears.

4. BATTERY COMPARTMENT

The battery compartment is found on the bottom rear of the ELF METER. To install/replace the battery, slide down the battery door and remove the battery. When handling the battery, always support the wires from the battery clip. Snap the battery in place and carefully place it back in the battery compartment and replace the battery door.

5. OVERRANGE INDICATOR

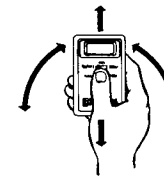
When the display reads "1," and all digits to the right are blank, the field being measured exceeds the selected range. If the Range Switch is in "LOW," slide it to "HIGH." If the "1" still appears, the field exceeds the limits of the ELF METER.

6. 60/50 Hz INDICATOR

The color of the end panel closest to the display indicates the frequency of the ELF METER. A black end panel indicates a 60 Hz unit. A gray panel indicates a 50 Hz unit.

OPERATION

To take a reading, place the ELF METER in the palm of your hand. Put the Range Switch in the left (LOW) position. The meter will display three digits, indicating milligauss (mG). While slowly bringing the ELF METER close to the source to be measured, rotate it left to right in your hand. As you move close to the source, the numbers on the meters may change.



Stop the rotation when the numbers reach the highest point. If the display indicates "003," your reading is 3 mG. If an overrange indication appears, slide the Range Switch to the right, the "HIGH" position. The meter will display three digits and a decimal point, indicating gauss (G). (1.03 indicates 1.03 G.) Now slowly encircle the measured item at various distances out from it, noting the readings, especially where someone using the item might normally be located.

MODEL 4060

ELF

METER



MEASURES EXTREMELY LOW FREQUENCY MAGNETIC FIELDS

Extremely Low Frequency magnetic fields are generated by scores of electrical devices ranging from electrical transmission lines to electric blankets. The F.W. Bell Model 4060 ELF Meter measures these fields easily. The large 3½-digit readout indicates

the field strength in either milligauss or gauss, depending on the setting.

Model 4060 technology is based on the long line of industrial and laboratory grade gaussmeters (magnetic field measuring instruments) designed and manufactured by F.W. Bell.



Typical Applications

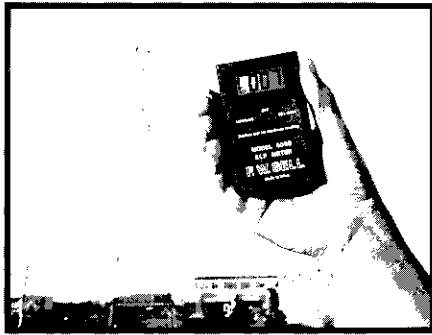
Check ELF magnetic fields produced by such equipment as:

- Power Transmission Lines
- Computers
- Electric Blankets
- Electric Machinery
- Microwave Ovens
- Television Receivers
- Heating Pads
- Waterbed Heaters

F.W. BELL

6120 Hanging Moss Road Orlando, FL 32807
Phone: 407-678-6900 Fax: 407-677-5765

MODEL 4060



Ideal for reading magnetic fields generated by electrical transmission lines.



Microwave ovens, electric blankets and other household appliances are easily checked with the Model 4060 ELF Meter.



Computer workstations and other job sites such as those near electrical machinery can be measured with the Model 4060 ELF Meter.

ELF

METER

FEATURES

- Compact
- Lightweight
- Large Easy-to-read 3½-digit Display
- Only one switch...ON/OFF and High/Low Positions
- All Solid-state F.W. Bell circuitry

SPECIFICATIONS

ACCURACY: ±1% (Typical)

RESOLUTION: 1 mG/10 mG

OPERATING/STORAGE TEMPERATURE RANGE:
14°F to 122°F (-10°C to +50°C)

SIZE: 2.4" (61 cm) wide x 3.8" (96.5 cm) long x 1" (25.4 cm) thick

WEIGHT: 4.5 oz. (126 g) with battery

BATTERY LIFE: 230 hours, continuous (Carbon/Zinc)

F.W. BELL

