User Guide



Three Axis Electromagnetic Field (EMF) Meter

Model 480826





Introduction

Congratulations on your purchase of Extech's Model 480826 Electromagnetic Field (EMETIME 10 No. 10 N

Meter Operation

- 1. Press the POWER button to turn the meter ON.
- Press the UNIT button to select either µTesla or mGauss units.
- 3. If the approximate range of the measurement is known, select the suitable meter range using the **RANGE** button. For unknown measurements, start with the highest range and work down through the ranges until the optimum range is reached.
- Hold the probe by its handle and move it slowly toward the object under test. If the LCD display is completely blank or if the low battery symbol appears on the LCD, check the 9V battery.
- 5. Notice that the field intensity reading increases as you move closer to a field.
- 6. Use the XYZ button to read the EMF measurement in the X, Y, or Z axis.
- 7. If the meter's display indicates a "1" on the left side of the LCD, an overload condition exists. This indicates that the measured radiation is higher than the capability of the currently selected range. Find the appropriate range using the RANGE button as described above.

Measurement Notes

Due to environmental electromagnetic interference the display may show small EMF values before testing. This is normal and due to the high sensitivity of the meter. Once a signal is detected by the sensor, the meter will display accurately.

If the object under test is turned off in the middle of testing, the meter reading should fall close to zero unless a field from another source is detected.

Data Hold feature

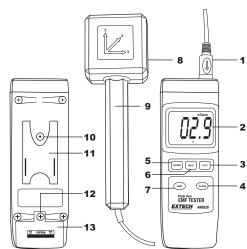
To freeze a displayed reading, press the **HOLD** button. The DH display icon will switch on. To unlock the display and return to normal operation, press the **HOLD** button again. The DH indicator will switch off.

Battery Replacement

When the low battery icon appears on the left corner of the LCD, the 9V battery has fallen to a critically low voltage level and should be replaced as soon as possible. The battery compartment cover is located at the bottom rear of the meter. Remove the Phillips head screw that secures the battery compartment and slide off the battery compartment cover. Replace the battery and secure the compartment cover before use.

Meter Description

- 1. **全部**30/2004 中间中的 in meter's sensor jack
- 2. LCD Display
- 3. XYZ axis select button
- 4. Manual Range button
- 5. Power button
- 6. Data Hold button
- 7. Unit select button
- 8. Sensor
- 9. Sensor grip handle
- 10. Tripod mount
- 11. Pull-out tilt stand
- 12. Battery compartment access screw
- 13. Battery compartment cover



Specifications

Display	3-1/2 digit (2000 count) LCD
Measurement rate	Approx. 0.4 seconds
Ranges and resolution	20μTesla (0.01) and 200mGauss (0.1)
	200μTesla (0.1) and 2000mGauss (1)
	2000μTesla (1) and 20,000mGauss (10)
	NOTE: 1 μTesla = 10 mGauss
Accuracy	± (4%FS + 3 digits) for 20µTesla and 200mGauss ranges
(stated for 50/60Hz)	± (5%FS + 3 digits) for 200µTesla and 2000mGauss ranges
	± (10%FS + 5 digits) 2000µTesla & 20,000mGauss ranges
Frequency bandwidth	30 to 300Hz
Over-range indication	"1" is displayed
Operating Temperature/Humidity	Temperature: 32 to 122°F (0 to 50°C)
	RH: 90% max. from 32 to 95°F (0 to 35°C);
	80% max. from 95 to 122°F (35 to 50°C)
Power source	9V Battery
Power consumption	Approx. 2.7mA DC
Dimensions	Meter: 7.6 x 2.6 x 1.2" (195 x 68 x 30mm)
	Probe: 2.8 x 2.3 x 8.7" (70 x 58 x 220mm)
Sensor Cable Length	3 ft (1m) approx.
Weight	16.2 oz. (460g) including probe and battery

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EMF Exposure

The effect of FMF exposure is a modern day concern. At the time of this writing, to the best of our knowledge no standards or recommendations exist regarding limits of EMF exposure. Exposure limits of 1 to 3mG have been suggested by several international bodies. Until evidence suggests that there is not a health risk associated with EMF exposure, common sense would dictate that a practice of minimal exposure be exercised.

Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies to sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website www.extech.com for contact information. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

Calibration and Repair Services

Extech offers repair and calibration services for the products we sell. Extech also provides NIST certification for most products. Call the Customer Service Department for information on calibration services available for this product. Extech recommends that annual calibrations be performed to verify meter performance and accuracy.



Support line (781) 890-7440

Technical support: Extension 200; E-mail: support@extech.com Repair & Returns: Extension 210; E-mail: repair@extech.com

Product specifications subject to change without notice
For the latest version of this User's Guide, Software updates, and other
up-to-the-minute product information, visit our website: www.extech.com
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