

EMF20 Magnetic Field Tester



Introduction

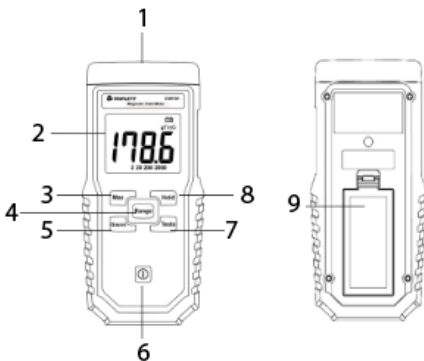
Congratulations on your purchase of the Triplett EMF20 Magnetic Field Meter. This handheld instrument measures electromagnetic fields of extremely low frequency (**ELF**) of 30 to 300Hz. The meter can measure the electromagnetic field radiation intensity that is produced from electric transmission equipment, power lines, microwave ovens, air conditioners, refrigerators, computer monitors, video/audio devices and many other appliances that may emit electromagnetic fields.

Safety




- For cleaning the instrument use a soft dry cloth. Never use a wet cloth, solvents or water.
- Operation Altitude: Up to 2000M.
- Operating Environment: Indoors use. This instrument has been designed for being used in an environment of pollution degree 2.

Description

1. Sensor
2. LCD
3. MAX Hold Button
4. Range Button
5. mGauss Unit Select Button
6. Power Button
7. μ Tesla Unit Select Button
8. Hold Button
9. Battery Cove



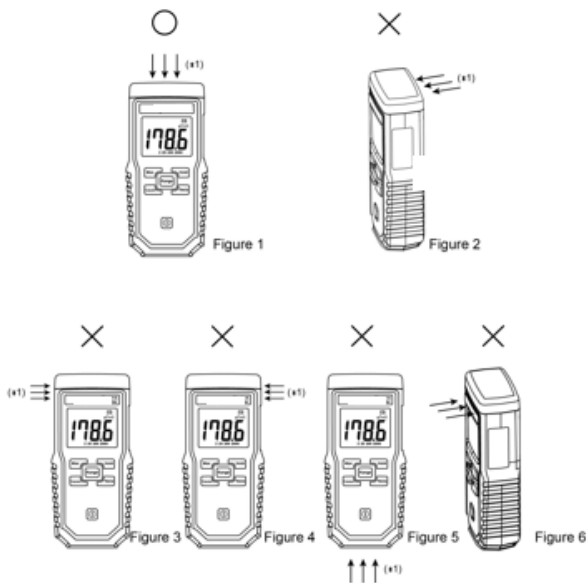
Operation

- Press  to power on.
-  Select for μ T unit or  for mG unit.
- Position the front (refer to Figure 1) of the meter to measure the electromagnetic waves. Try to change the measurement angle or position for obtaining the highest reading value (please refer to Figure 2 to 6).
- Read the measured value. The display of "OL" on the left highest position

indicates there is an overload on the reading. Please press **Range** to select a higher range for measurement again.

- Due to environmental magnetic field factors, this magnetic field meter could display a reading value that is lower than 0.5mG prior to measuring. This is not a malfunction of the device.
- To permanently lock and keep the reading displayed on the LCD, press **Hold** or press **Hold** again to unlock.
- To retain the maximum value, press **Max** and the reading value displayed on the LCD will keep updating to the maximum value.

Examples of Proper and Improper Measuring Techniques:



(*1) Arrow pointing direction indicates the direction of the electromagnetic


Specifications

- **Display:** 3-1/2 digits LCD, maximum reading 1999.
- **Range:** 200/2000 mG, 20/200 μ T.
- **Resolution:** 0.1/1 mG or 0.01/0.1 μ T.
- **Frequency response:** 30Hz to 300Hz.
- **Sensor:** Single Axis
- **Accuracy:** $\pm(2.5\% \pm 6\text{dgt})$ at 50Hz/60Hz.
- **Over load:** LCD display "OL".
- **Sample rate:** 2.5 times per second.
- **Battery:** 9V NEDA 1604, IEC 6F22 or JIS 006P.
- **Battery life:** Approximate 100 hours.
- **Operating temperature & humidity:** 5°C to 40°C, below 80% RH.
- **Storage temperature & humidity:** -10°C to 60°C, below 70%.
- **Weight:** About 170g.
- **Dimensions:** 140(L)*65(W)*37.5(H)mm.
- **Accessories:** User's manual, 9V battery, Carrying case.

Battery replacement



WARNING

If the symbol “” appears on the LCD, please replace the battery immediately

- Turn off the instrument.
- Remove the battery cover
- Replace the battery.
- Install the battery cover.



Caution: this symbol indicates that equipment and its accessories shall be subject to a separate collection and correct disposal

Warranty Information

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty

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