

LUTRON EMF819

The Lutron EMF-819 is a portable gaussmeter used to measure electromagnetic fields (EMF) in low-frequency ranges. It is commonly used to assess EMF levels in environments such as workplaces, homes, and industrial settings to ensure compliance with safety standards. Here are some key features and details about the Lutron EMF-819:



Key Features:

1. Measurement Range:

- Magnetic Field: 0 to 2000 mG (milligauss) or 0 to 200 μ T (microtesla).
- Frequency Range: Typically 30 Hz to 300 Hz, suitable for measuring AC magnetic fields.

2. Applications:

- Detecting EMF from power lines, electrical appliances, and other sources.
- Ensuring safety in environments with high EMF exposure.
- Scientific research and educational purposes.

3. Display:

- LCD display for easy reading of measurements.
- Features like data hold, max/min values, and auto-ranging for convenience.

4. Portability:

- Compact and lightweight design, making it easy to carry and use in various locations.

5. Accuracy:



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- High accuracy for reliable measurements, often within $\pm 2\%$ to $\pm 5\%$ depending on the range.
- 6. **Power Source:**
 - Typically powered by a 9V battery, making it portable and easy to use in the field.

How to Use:

1. **Power On:** Turn on the device using the power button.
2. **Select Range:** Choose the appropriate measurement range (if not auto-ranging).
3. **Measure:** Hold the device near the source of the electromagnetic field and read the measurement on the display.
4. **Data Hold:** Use the hold function to freeze the reading for easier recording.
5. **Power Off:** Turn off the device after use to conserve battery life.

Applications:

- **Home and Office:** Checking EMF levels from household appliances, wiring, and office equipment.
- **Industrial:** Monitoring EMF in factories and industrial settings to ensure worker safety.
- **Research:** Conducting studies on electromagnetic fields and their effects.