

ELF Magnetic Field Meter

Features

- 5 – 2000 Hz
- 0.2 mG – 20 G
- Three Concentric Orthogonal Field Sensors
- True RMS Detection

Accessories

Battery Charger
User Manual



*Isotropic Response
True RMS Detection
100dB Dynamic Range*

Isotropic, True RMS Magnetic Field Measurements

Signals from three orthogonal sensing elements are combined in a vector sum to provide accurate magnetic field measurements from any ELF magnetic field source. These include single- or polyphase electrical circuits, VDT's, household wiring and appliances.

The HI-3627's remote sensor and meter make quick work of determining ELF magnetic field distributions in various applications such as power-line emissions, home ambient environments and high current factory locations. A data logger or chart recorder can be connected to the HI-3627 output to monitor field variations over time.

The 2kHz upper cutoff frequency enables accurate measurements of more than 30 harmonics of a 60Hz-power frequency field. The switch-selectable, lower frequency cutoff point enables testing to Swedish MPR and IEEE 1140 guidelines.

Specifications

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|-------------------------------|--|
| Frequency Response | ± 3 dB 30-2000Hz or 5-2000Hz (Switch-Selectable) |
| Dynamic Range | 0.2 milliGauss – 20 Gauss (100dB) |
| Detection | Isotropic |
| Response | True RMS |
| Sensor | 3 Concentric, Orthogonal, Shielded Coils 110mm ID x 116mm OD (0.01m ²) each Overall: 127mm Sphere Diameter, 300mm Handle with 1.2m (4') Cable Optional: Single-Axis Sensor to determine direction and source location |
| Recorder Output indication | 0 – 5 Vdc (1mA max), proportional to meter |
| Operating Time | Approximately 30 hours on a Full Charge |
| Dimensions | 156H x 95W x 57D mm |
| Weight | Meter 0.65kg (23 oz) Probe 0.65kg (23 oz) |
| Environmental | 10°C – 40°C 5% - 95% Humidity, Non-Condensing |