

# HI-3627 ELF Magnetic Field Meter

## *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.



***Isotropic Response  
True RMS Detection  
100dB Dynamic Range***

## **Specifications**

Frequency Response	$\pm 3$ dB 30-2000Hz or 5-2000Hz (Switch-Selectable)
Dynamic Range	0.2 milliGauss – 20 Gauss (100dB)
Detection Response	Isotropic True RMS
Sensor	3 Concentric, Orthogonal, Shielded Coils 110mm ID x 116mm OD (0.01m <sup>2</sup> ) each Overall: 127mm Sphere Diameter, 300mm Handle with 1.2m (4') Cable Optional: Single-Axis Sensor to determine direction and source location
Recorder Output	0 – 5 Vdc (1mA max), proportional to meter indication
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

## **Accessories**

Battery Charger  
User Manual  
Custom Fitted Carrying Case