

TEM / 3 MAGNETIC ANTENNA



DESCRIPTION

The TEM/3 antenna is a single channel magnetic field antenna useful for transient electromagnetic (TEM), controlled source audio-frequency magnetotelluric (CSAMT), and other types of EM geophysical surveys measuring vertical or horizontal fields. Multiple units may be used simultaneously to measure multiple axes.

FEATURES

- The TEM/3 can be used inside or outside the transmitting loop for transient measurements.
- Frequency calibrations are provided for both harmonic and single frequency applications.

OPTIONAL EQUIPMENT

- Antenna STAND/Z for vertical measurements.
- Antenna STAND/XZ for a combination of vertical and horizontal measurements.

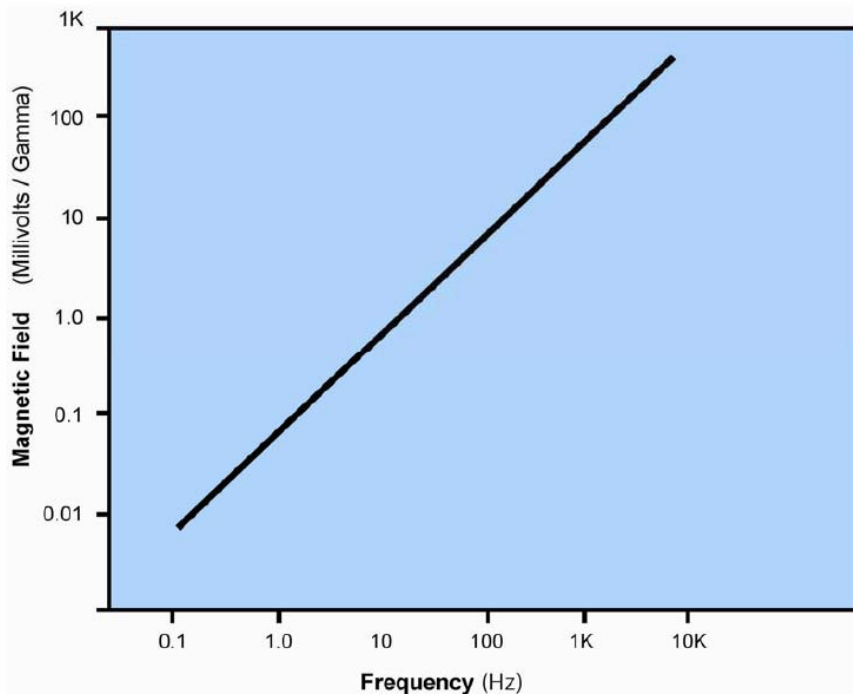
SPECIFICATIONS FOR THE TEM/3 MAGNETIC ANTENNA

General

- Power: two 9V batteries
 - Alkaline: 7 days at 12 hours per day
 - Lithium: >14 days at 12 hours per day
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- Amplifier gain: 33
- Number of turns: 4000
- Effective Area: 10,000 m²
- Minimum Detectable Signal: 0.007 gamma•Hz
- Maximum signal without saturation: 68,000 gamma•Hz
- Delay constant: 15 microseconds
- Multiple unit crosstalk: > 60db isolation
- Electrical response: dB/dt to above 8 KHz

Physical

- Length: 61cm
- Diameter: 11cm
- Weight: 4.5 kg
- Core: ceramic ferrite, 2.54 x 45.7 cm



Specifications subject to change without notice # 01.09