

## 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.

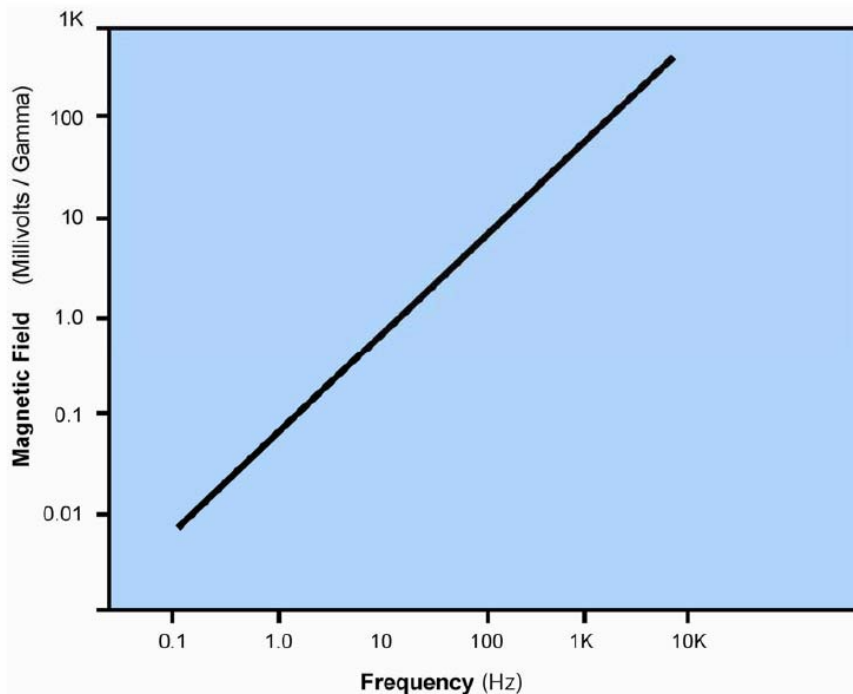
## SPECIFICATIONS FOR THE TEM/3 MAGNETIC ANTENNA

### General

- Power: two 9V batteries
  - Alkaline: 7 days at 12 hours per day
  - Lithium: >14 days at 12 hours per day
- Amplifier gain: 33
- Number of turns: 4000
- Effective Area: 10,000 m<sup>2</sup>
- 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*