

TEM / 3 Magnetic Antenna

Single Channel Magnetic Field Antenna



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

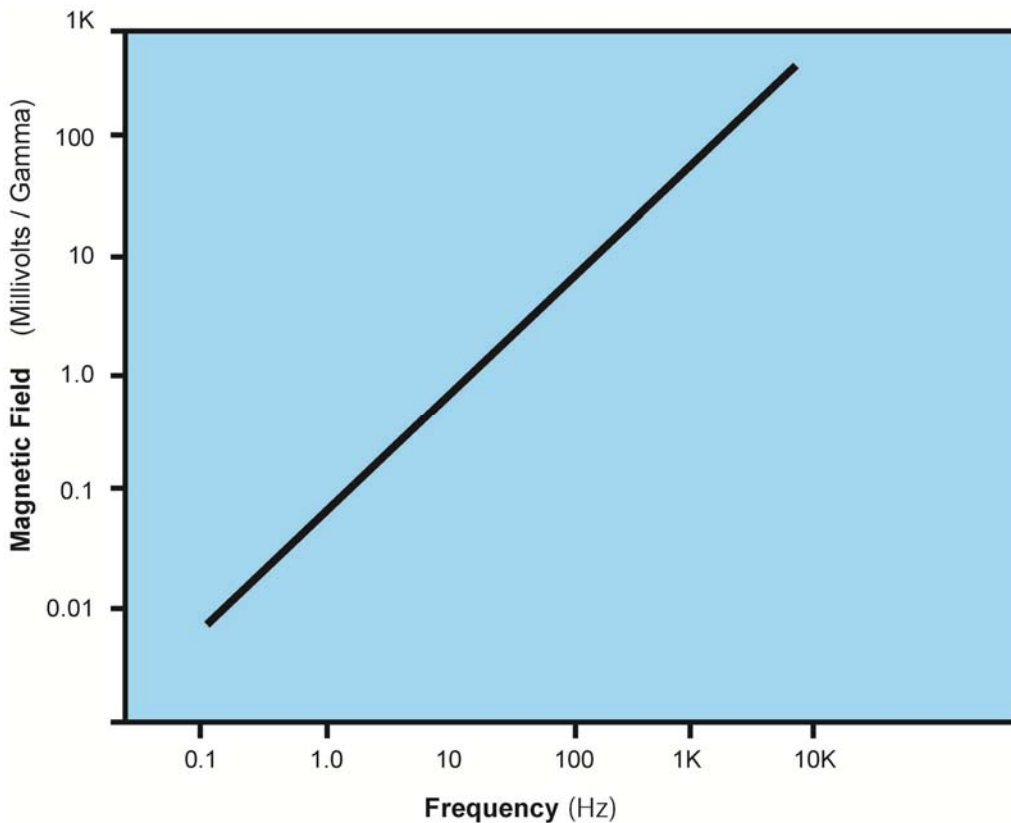
General

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 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
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