

TEM/3 Magnetic Antenna

Single channel magnetic-field antenna for EM surveys



The TEM/3 antenna is a single channel, magnetic-field antenna designed specifically for transient electromagnetic (TEM), controlled source audio-frequency magnetotelluric (CSAMT), and other types of EM geophysical surveys that require measuring vertical or horizontal fields.

Multiple units may be used simultaneously to measure multiple axes.

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

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

Specifications

Power:	Two 9V batteries
Alkaline:	7 days at 10 hours/day (70 hours)
Lithium:	14 days at 10 hours/day (140 hours)
Amplifier gain:	33
Number of turns:	4000
Effective area:	10,000 m ²
Minimum detectable signal:	7x10 ⁻³ nanotesla/sec
Maximum signal without saturation:	68x10 ³ nanotesla/sec
Delay constant:	15 microseconds
Multiple unit cross-talk:	> 60db isolation
Length:	61cm
Diameter:	11cm
Weight:	4.5 kg
Core:	Ceramic ferrite, 2.54 x 45.7 cm

Electrical response

