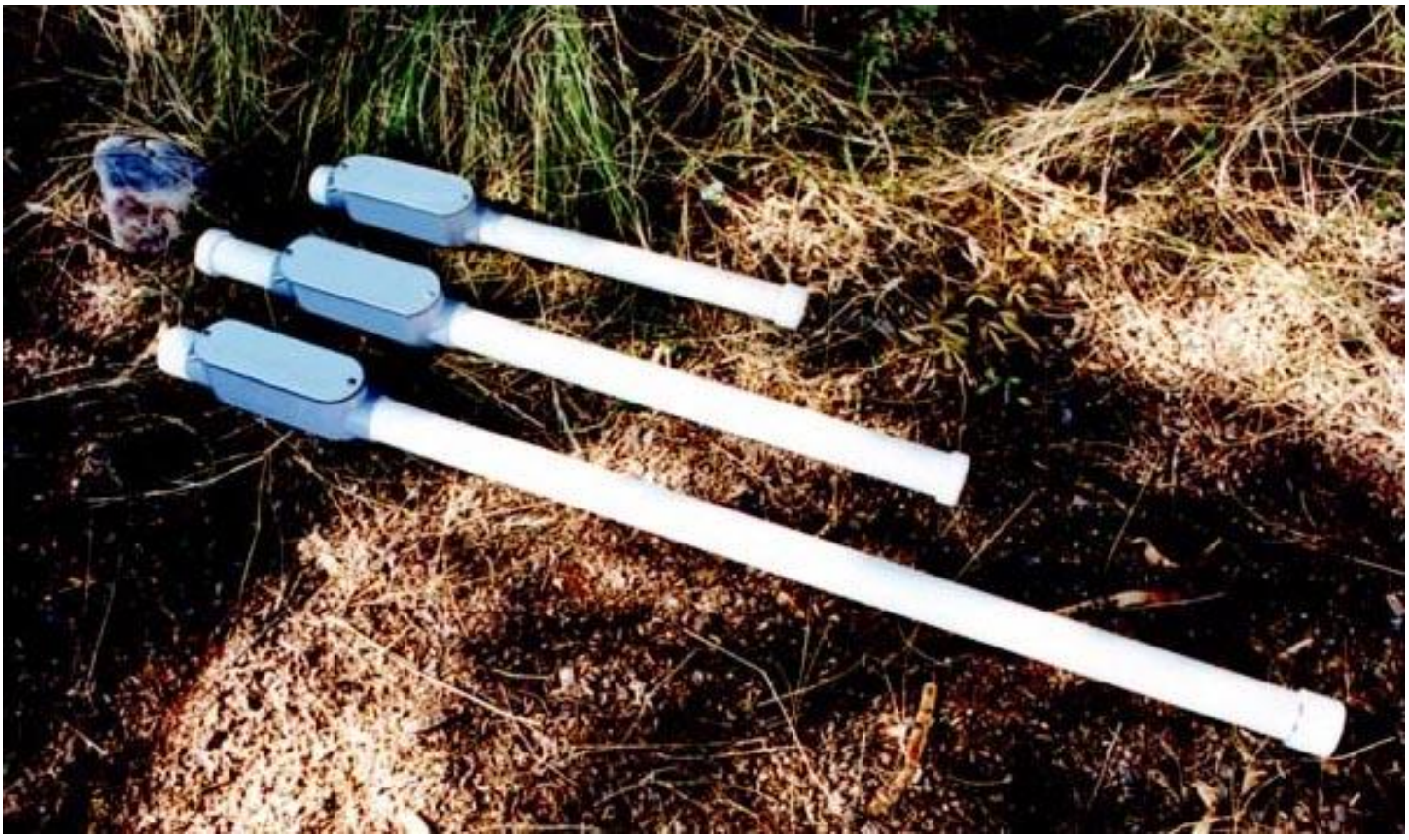
ANT/7
Magnetic Antenna



DESCRIPTION

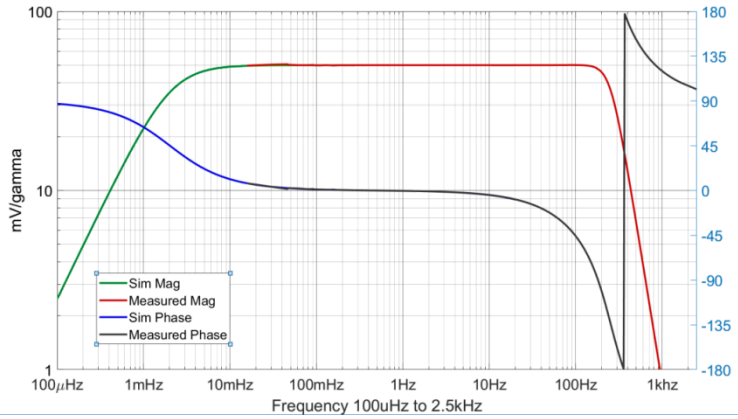
The ANT/7 is a low-noise magnetic field sensor designed for magnetotelluric investigations and other applications where measurements of the field at frequencies below 1 Hz are required. Using Triple-Nested magnetic feedback amplifier technology and including carefully designed mu-metal cores, this antenna is designed to be a highly flexible instrument, built to withstand the difficult conditions encountered in the field environment.

SPECIFICATIONS FOR THE ANT/7 MAGNETIC ANTENNA

Dimensions:

Length:	63.5 cm	(25.0	in)
Diameter:	4.8 cm	(1.875	in)
Weight:	2 kg	(4.5	lb)

ANT 7 Response Curve



Power Specifications:

- Power requirement: Internal batteries 2 x 9V, or external power ± 7.5 V to ± 15 V, 4.5 mA approximately 125 hours run time with batteries.
- Inrush current: With external power supplies is less than 25 mA for 5 ms

Output Specifications:

- Output: Differential analog output, 24 to 56 Vpp depending on Supply voltage. Will drive 300 m (1000 ft) or longer cable ± 4 mA max load.

Frequency Specifications:

- Standard Frequency Range: 0.0001 – 240 Hz
- Sensitivity in Passband: 100 mV/γ (100 mV/nT)
- Highpass: 0.25 Hz, 1 pole filter, useful down to 10,000 seconds.
- Lowpass: 1 kHz, 3 pole filter

Noise Level:

100 $\mu\gamma$ (100 fT) per $\sqrt{Hz}$ at 1 Hz
12 $\mu\gamma$ (12 fT) per $\sqrt{Hz}$ nominal > 1 Hz

Application: MT / CSEM

OPTIONS

The following parameters can be adjusted to customer requirements:

- Highpass can be set as low as 0.05 Hz.
- Lowpass can be set as low as 10
- Output sensitivity can be set between 10 mV to 500 mV/g. 500 mV/g would be used for seafloor applications.

Specifications subject to change without notice

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