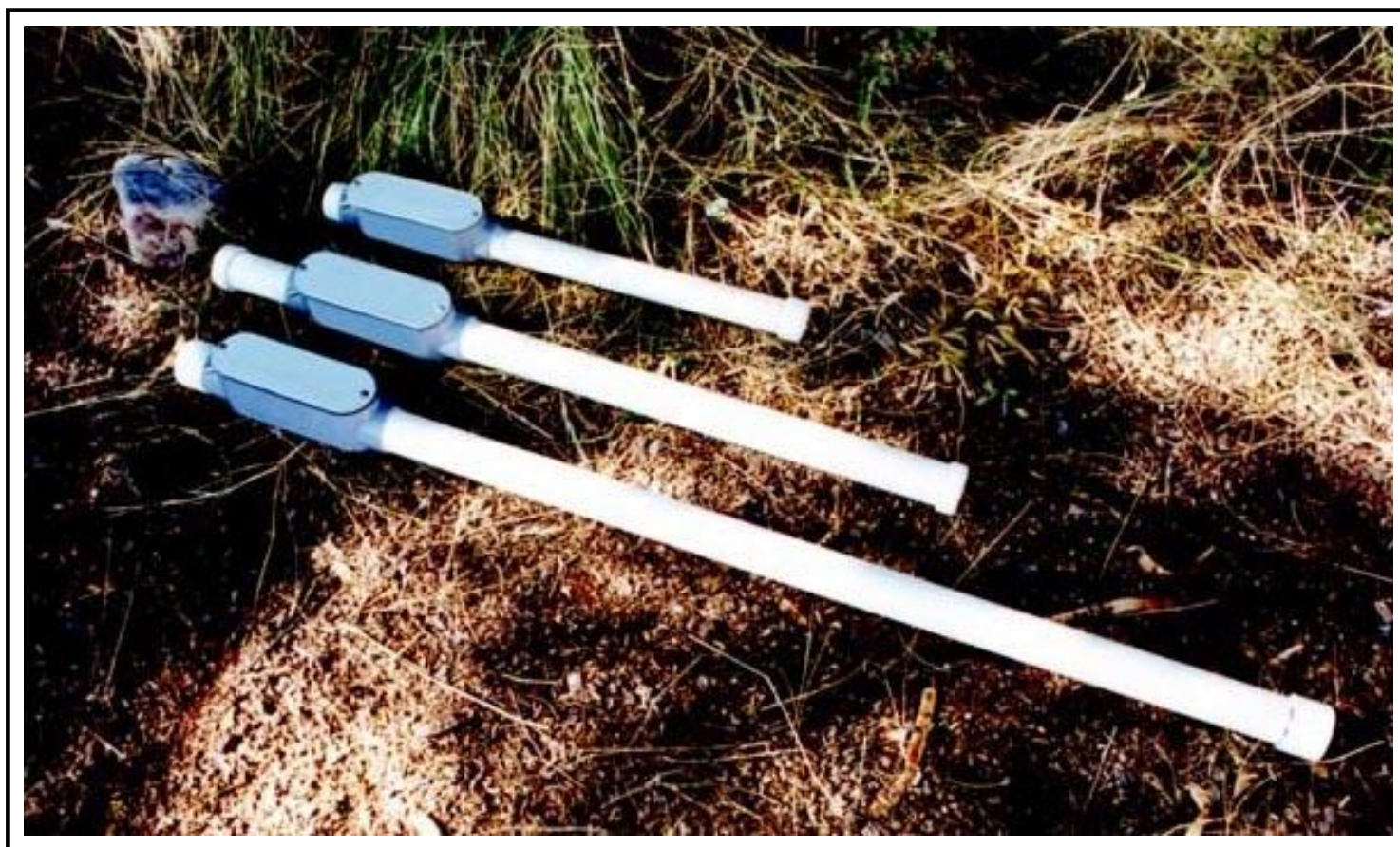


ANT/4 Magnetic Antenna



DESCRIPTION

The ANT/4 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/4 MAGNETIC ANTENNA

Dimensions:

Length: 138.0 cm (54.0 in)
Diameter: 4.8 cm (1.875 in)
Weight: 6.2 kg (13.5 lb)

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:

- Frequency Range: 0.0001 – 1000 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 $\sqrt{\text{Hz}}$ at 1 Hz
12 $\mu\gamma$ (12 fT) per $\sqrt{\text{Hz}}$ nominal > 1 Hz

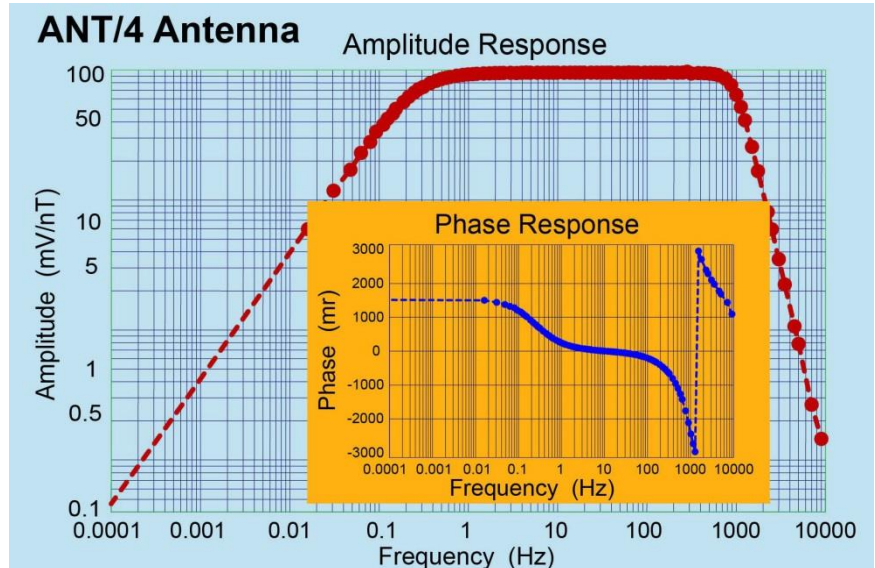
Application: MT / CSEM

OPTIONS

Highpass can be set down to 0.01 Hz at an extra cost of \$400.

The following parameters can be adjusted to customer requirements at no extra cost:

- Highpass can be set as low as 0.05 Hz.
- Lowpass can be set as low as 10 Hz and up to 1200 Hz
- 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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