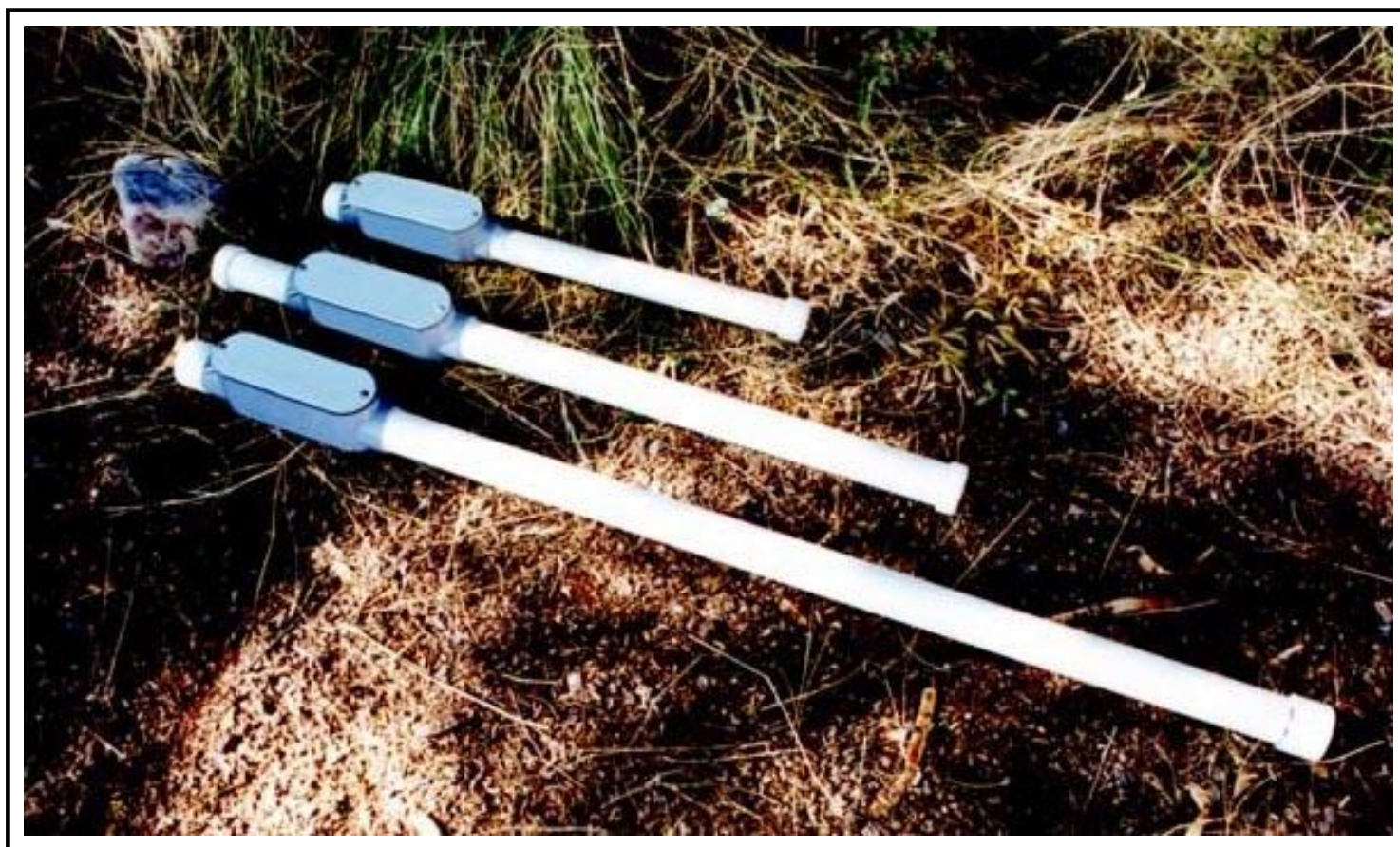


# ANT/6 Magnetic Antenna



## DESCRIPTION

The ANT/6 is a low noise sensor designed for accurate measurement of the magnetic field from 1 to 10 kHz. 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/6 MAGNETIC ANTENNA

## Dimensions:

Length: 91.0 cm (36.0 in)  
Diameter: 4.8 cm (1.875 in)  
Weight: 3.2 kg (7.0 lb)

## Power Specifications:

- Power requirements: Internal batteries 3 x 9V or external power  $\pm 9$  V to  $\pm 15$  V, 5.6 mA approximately 100 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, 33 to 56 Vpp ( $>50$  k $\Omega$  load) depending on supply voltage. Will drive 300 m (1000 ft) or longer cable.  $\pm 4$  mA max load.

## Frequency Response:

Frequency Range: 0.1 – 10,240 Hz

Output Sensitivity in Passband: 250 mV/ $\gamma$  (250 mV/nT)

Highpass: corner (-3dB) @ 1 Hz, 1 pole filter. There is also a servo to null the offset, which adds a 2<sup>nd</sup> pole at approximately 0.018 Hz

Lowpass: corner (-3dB) @ 10 kHz, 3 pole

## Noise Level:

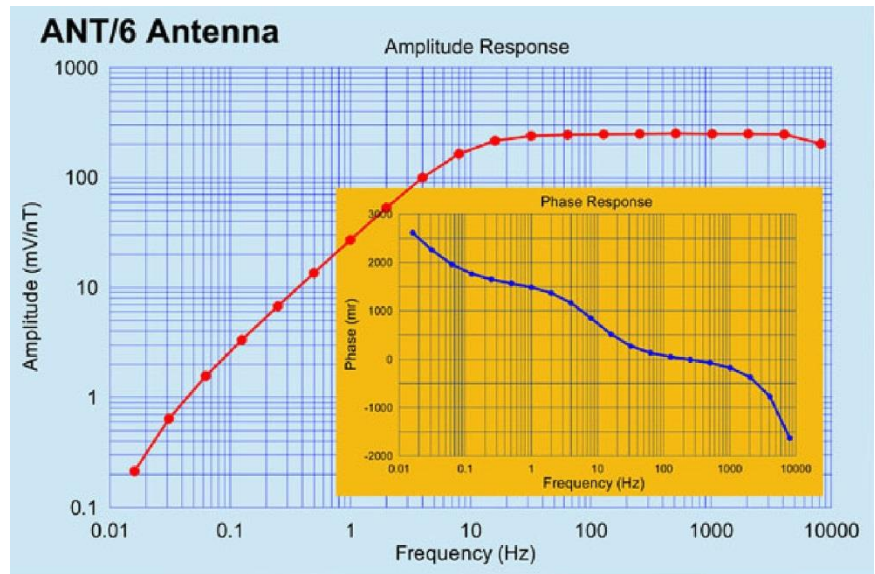
200  $\mu\gamma$  (200 fT) per  $\sqrt{\text{Hz}}$  at 1 Hz

1  $\mu\gamma$  (1 fT) per  $\sqrt{\text{Hz}}$  nominal  $> 200$  Hz

## Application: MT / CSAMT / CSEM

**OPTIONS:** 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.
- The servo frequency can be adjusted, changing the settling time of the antenna.



*Specifications subject to change without notice*

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