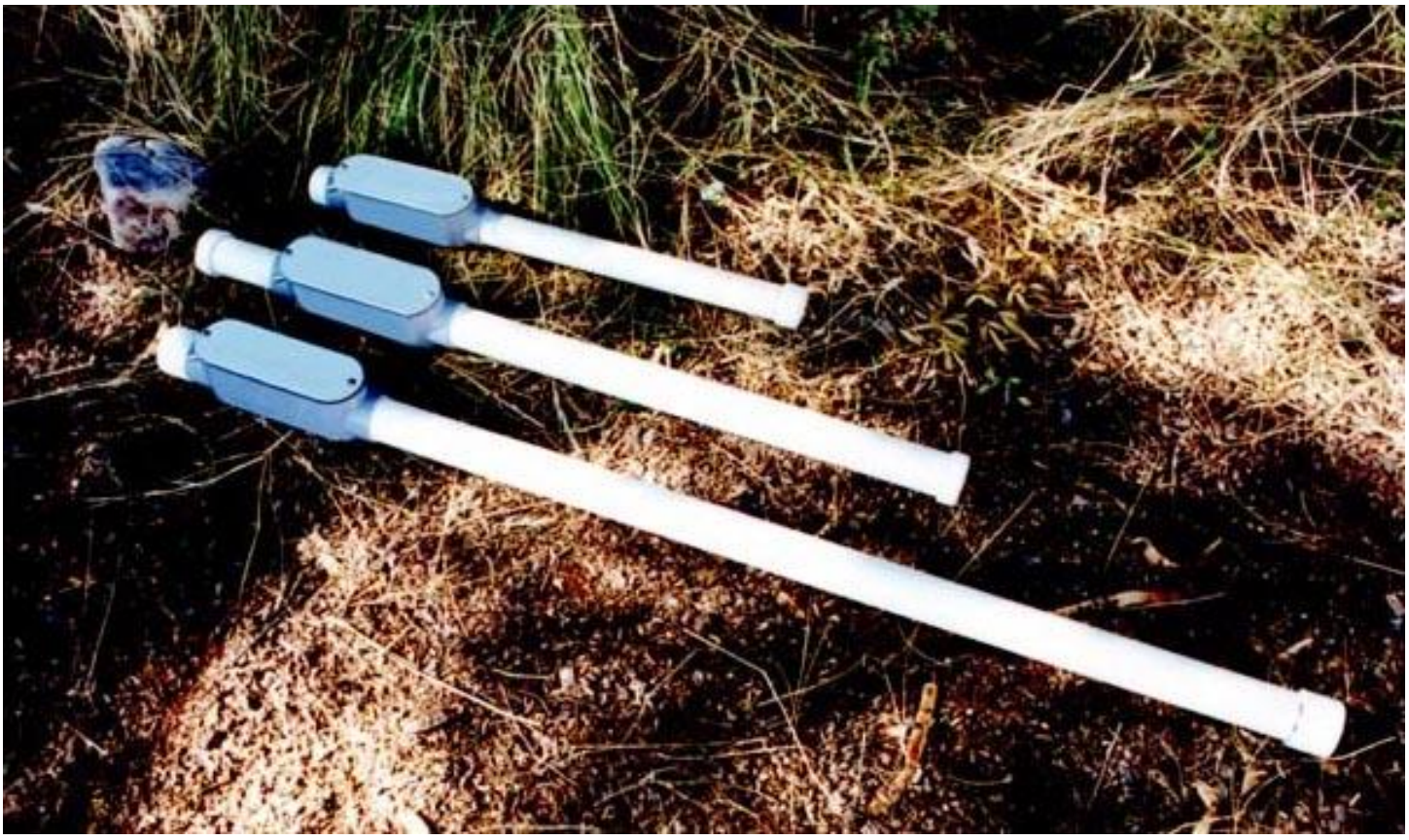
# ANT/23
# Magnetic Antenna



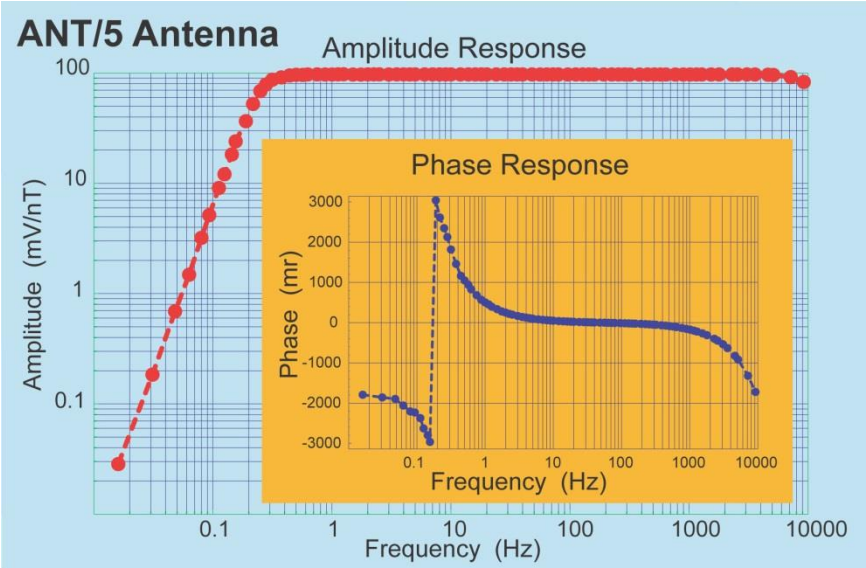
## DESCRIPTION

The ANT/23 magnetic field sensor is designed for high frequency and Time Domain Electromagnetic measurements. 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/23 MAGNETIC ANTENNA

**Dimensions:** *(smallest and lightest)*

| | | | |
|---|---|---|---|
| Length: | ~50.2 cm | ( ~19.75 | in) |
| Diameter: | 3.6 cm | ( 1.625 | in) |
| Weight: | 1.5 kg | ( 3.5 | lb) |




**Power Specifications:**

- Power requirements: Internal batteries 3 x 9V, or external power ± 9 V to ± 15 V, 5.6 mA approximately 100 hours run time with batteries.
- Inrush current: ????

**Output Specifications:**

- Output: Differential analog output, 33 to 56 Vpp depending on supply voltage. Will drive 300 m (1000 ft) or longer cable. ± 4 mA max load.

**Frequency Specifications:**

Frequency Range: 0.25 – 10,000 Hz

Output Sensitivity in Passband: 100 mV/$\gamma$ (100 mV/nT)

Frequency Range: Standard is same as an ANT/6, 1 Hz – 10 kHz, but can be set anywhere between 0.1 Hz – 50 kHz per customer request. Antennas that operate at higher frequencies may use slightly more power, and additional 0.5 to 1 mA.

**Noise Level:**

500 $\mu\gamma$ (500 fT) per $\sqrt{Hz}$ at 1 Hz

3 $\mu\gamma$ (3 fT) per $\sqrt{Hz}$ at 100 Hz – 8 kHz

**Application: CSAMT / TEM / CSEM**

The ANT/23 is ideal for noisy environments due to its wide dynamic range of 330 to 560 $\gamma$ (nT) peak-to-peak depending upon the supply voltage.

The ANT/23 can also be ordered in a one-inch diameter borehole configuration with a length of 66 cm (26 in).

**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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