BF-7 Magnetic Field Induction Sensor

PERFORMANCE
- Frequency Range: 0.0001 to 700 Hz
- 3 dB Frequency Corners: 0.3 Hz, 500 Hz
- Sensitivity (flat region): 0.3 V/nT (standard)
- Power Consumption: 12 mA at ± 12V

MECHANICAL SPECIFICATIONS
- Housing: Black Amalgon straight tube
- Length: 104 cm (41 in)
- Diameter: 6 cm (2.4 in)
- Weight: 7 kg (15 lbs)
- Connector: 8-pin Tajimi

PINOUT SPECIFICATIONS
- 8-pin Tajimi Connector Pin out: 23A16-8AM
- Cable Mating Part: 23A16-8AF
- Dust Cap: 16RC

BF Magnetic Sensors are constructed using a high magnetic permeability, mu-metal core with proprietary windings. The coil windings are shielded and epoxy potted inside a Black Amalgon housing.

The BF-7 Sensor utilizes a magnetic feedback design to yield a stable flat response over several decades of frequency; here, the sensors respond as a B field detector. At frequencies below the flat region, the response is proportional to frequency. The coil and preamplifier are housed in a rugged impact-resistant Nema G-10 fiberglass tube and powered by an external ±12V power supply. The short length of the BF-7 Sensor and location is designed for vertical field deployment.

APPLICATIONS
The BF-7 may be customized for a variety of applications, including: Geophysical surveys (MT, AMT, CSAMT, MMR, MIP, CSEM), marine surveys, atmospheric studies, earthquake studies, and high accuracy magnetic field studies.