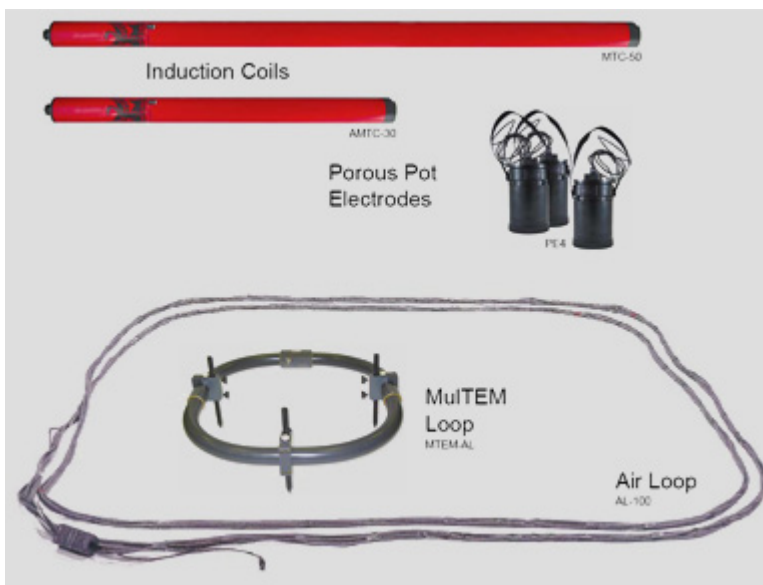


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## Field Sensors

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**Designed For Use In The Most Demanding Environments**



Phoenix offers a range of electrical and magnetic sensors for MT and AMT data acquisition.

**MT, AMT, CSAMT**

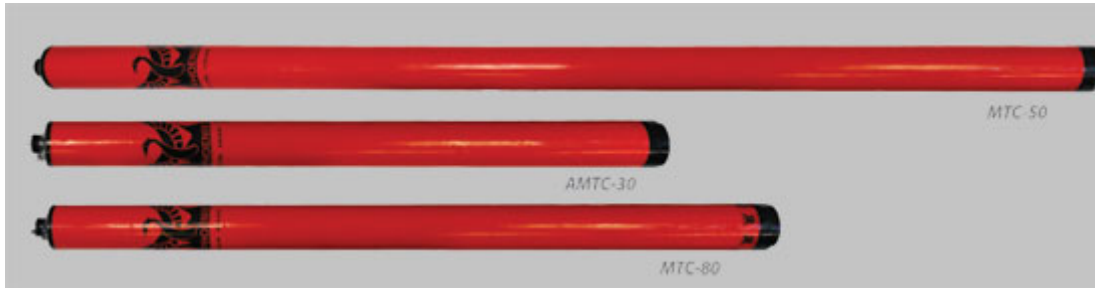
Magnetotellurics (MT), Audio MT, and Controlled Source Audio MT in scalar, vector, and tensor modes

**TDEM, FDEM, MuITEM, LowTEM**

All common Time and Frequency Domain Electromagnetics functions

All Phoenix field sensors are highly reliable, lightweight, and manufactured to exacting standards. Designed for use in the most demanding environments, they have proven their reliability and quality on many thousands of surveys around the world.

Combined with the V5 2000 System or System2000.net instruments, they provide excellent data quality over a wide range of frequencies.



**MTC-50** magnetic sensor coils weigh just over 10 kg, and measure only 141 cm. They provide magnetotelluric data at frequencies between 400 Hz and 0.00002 Hz (50 000 seconds).

**AMTC-30** magnetic sensor coils are used for AMT magnetic data acquisition. Weighing about 3 kg and measuring only 82 cm, AMTC-30 sensors are compact and portable while providing high-quality magnetic data at frequencies between 10 000 Hz and 1 Hz.

**MTC-80** magnetic sensor coils are the newest addition to the induction coil family. Intended for use in MT surveys to moderate depth, they weigh about 5 kg (half the weight of the MTC-50) and measure 97 cm in length (70% of the length of an MTC-50). The MTC-80 design extends the useful MT range upwards to 1 kHz and provides good data down to 10 000 seconds, depending on signal strength and local conditions.



*The airloop model AL-100 is specially designed for vertical magnetic field MT measurements in stony and hard ground, where it is difficult to dig a hole for a vertical coil.*



*The PE4 non-polarizing electrodes*



*The MTEM-AL MulteM loop*

**Summary Specification**

Electrode Model PE4

Height :  
20 cm

Height :  
20 cm

Weight :  
1.5 kg

Dimensions :  
20 cm x 10 cm

Flat response across Frequency range :  
DC to 10 000 Hz

A low noise, low offset, low DC drift, non-polarizing, broadband electrode. Porous ceramic contact surface and PbCl<sub>2</sub> slurry prevent polarization. Heavy-duty PVC construction protects against foul weather and temperature variations when buried in the earth.

MTEM-AL MulTEM Loop

Response :  
100  $\mu$ s - 50 ms

Signal repetition rates (60 Hz area) :  
30, 20, 15, 12, 10, 7.5, 5, 4 , 3 Hz

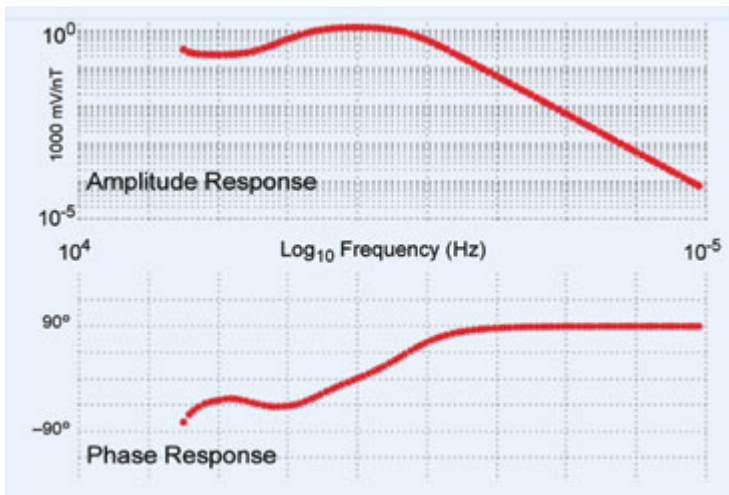
Signal repetition rates (50 Hz area) :  
25, 12.5, 10, 6.25, 5, 3.125, 2.5 Hz

Size :  
1.1 m nominal dia. x 8.5 cm (41 cm with legs)

Weight :  
12 kg

Nominal equivalent area :  
100 m<sup>2</sup>

Three centre-bubble levels for accurate installation.  
Heavy-duty PVC construction



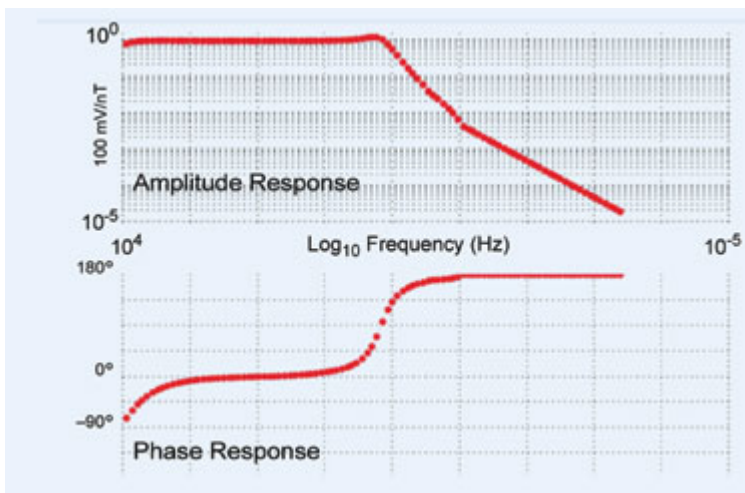
### ***Coil Model MTC-50***

*Overall Length : 141 cm*

*Outside Diameter : 6.0 cm*

*Weight : 10.5 kg*

*Frequency Range (for MT) : 400 Hz to 0.00002 Hz*



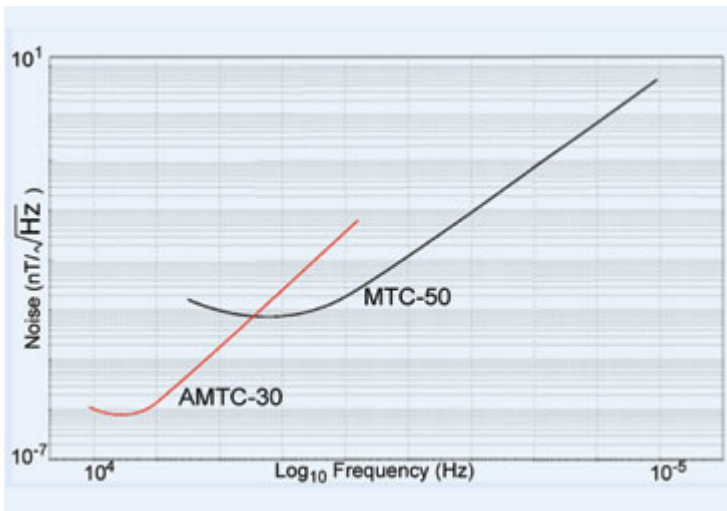
### ***Coil Model AMTC-30***

*Overall Length : 82 cm*

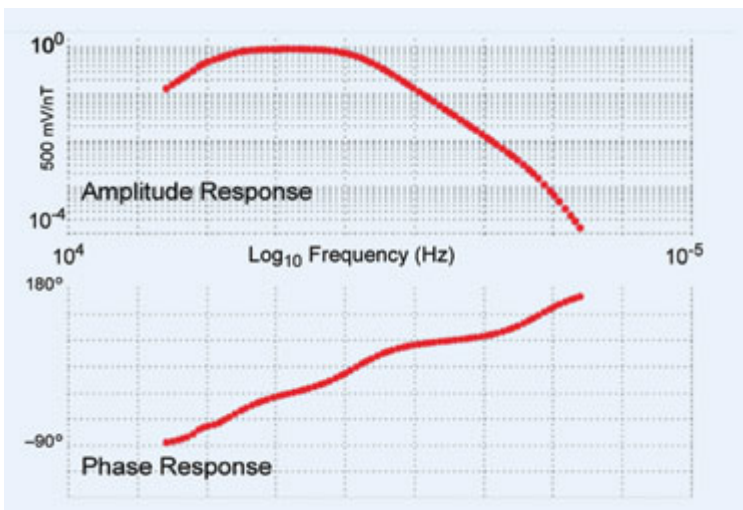
*Outside Diameter : 6.0 cm*

*Weight : 3.0 kg*

*Frequency Range (for MT) : 10 000 Hz to 1 Hz*



### ***Coil Model MTC-50 vs Coil AMTC - 30***



### ***Airloop Model AL-100***

*The airloop is specially designed for vertical magnetic field MT measurements in stony and hard ground, where it is difficult to dig a hole for a vertical coil.*

*Layout Size : 6.25 m x 6.25 m*

*Weight : 25 kg*

*Frequency Range (for MT) : 400 Hz to 0.001 Hz*

### **Who We Are**

Phoenix Geosystem Indonesia, Indonesia's leading supplier of non-seismic mining equipment, training, education and exploration services.

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### **Corporate Brochure**

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[Corporate Brochure](#)

## Have Question?

Do you have any question? If you do, feel free to contact us with visit:

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