PHOENIX
GEOPHYSICS

We are the world leader in magnetotelluric (MT) and Induced Polarization (IP) instrumentation. Phoenix systems are used in more than 80 countries for exploration and research. We are the world leader in magnetotelluric (MT) and Induced Polarization (IP) instrumentation. Phoenix systems are used in more than 80 countries for exploration and research.

PHOENIX TRANSMITTER

T-3 (3KW MULTIPURPOSE)

Applications
CSAMT Controlled Source Audio MT
IP Induced Polarization: Frequency and Time Domain, Phase and Spectral IP
TDEM, FDEM All common Time and Frequency Domain Electromagnetics functions
Resistivity All common Resistivity functions (Dipole, Schlumberger, or Wenner soundings)

T-4 (2.8 KW TDEM)

Applications
TDEM, FDEM All common Time and Frequency Domain Electromagnetics functions

T-3 (3KW MULTIPURPOSE)

The TXU-30 incorporates many of the features of the groundbreaking new technology, The TXU-30 is a compact portable model, combining substantial power output (20 kW) with great reliability, flexibility, and user-friendly operation.

Applications
CSAMT Controlled Source Audio MT
IP Induced Polarization: Frequency and Time Domain, Phase and Spectral IP
TDEM, FDEM All common Time and Frequency Domain Electromagnetics functions
Resistivity All common Resistivity functions (Dipole, Schlumberger, or Wenner soundings)

T-200 (160 KW FOR COMPLEX RESISTIVITY, TRANSIENT EM AND CSAMT)

Input Power : Integral Phoenix MG-200 - 300HP Diesel - 400 Hz/3 phase alternator
Output Current : Max. 160A
Output Power : Max. 160kW
Output Voltage : Max. 1600V, 2 ranges
Duty Cycle : 50% to 100%
Repetition Rate : Up to 256 Hz

Turn-off Time : <50 microseconds (resistive load) Controls Microprocessor based control panel with GPS synchronization Indicators: Mode, Frequency, Current, Voltage, GPS Time, and Faults.

V8-RECEIVER

The V8 has 3 magnetic channels and 3 electric channels. The magnetic channels can be assigned either to standard magnetic sensors or to TDEM sensors. The V8 can operate in stand-alone mode (usually for AMT and MT). In addition, it can serve as the hub of a local network of auxiliary 3-channel (3E) data acquisition units, which communicate with the V8 by wireless or optional cable. No cable links are required between the networked recording units, or between receivers and transmitter

Applications
MT, AMT Magnetotellurics with remote reference
CSAMT Controlled Source Audio MT
IP Induced Polarization: Time and Frequency Domain, Phase and Spectral Induced Polarization
TDEM, FDEM All common Time and Frequency Domain Electromagnetics functions
Resistivity All common Resistivity functions (Schlumberger, Wenner, or Dipole soundings)
Other Record or monitor time series data from any suitable sensor, including geophones

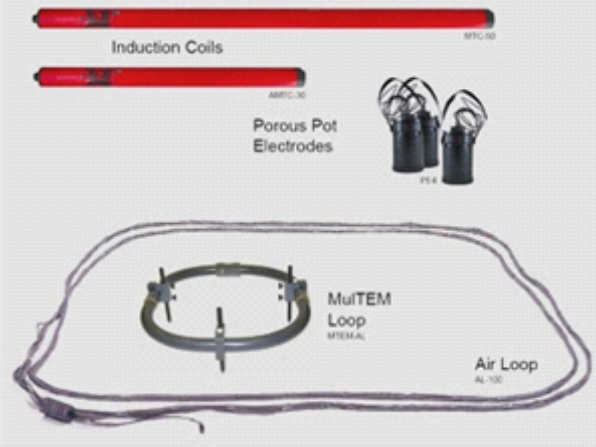
RXU (WIRELESS RECEIVER)

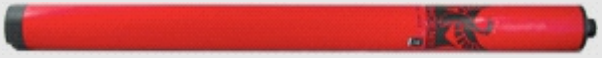
The RXU uses the same data acquisition software and the same on-board processing software as the V8. When radio communication is established, the RXU transmits its statistics to the V8 over the network, while simultaneously saving the data on disk for post-processing.

MTU SERIES

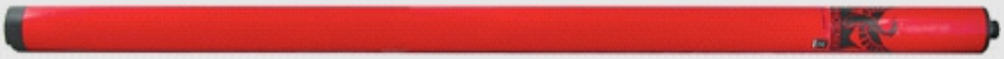
Several channel complements are available¡Xelectric (E) only, magnetic (H) only, or 2E + 3H combined. The units can be purchased for MT alone (MTU) or for selectable MT/AMT (MTU-A).
- Lightweight, portable, rugged
- No cable links required
- GPS synchronized
- 10 000Hz to 0.00002Hz
- 24-bit digital resolution
- MTU Magnetotellurics 1kHz to 0.00002Hz (50 000 seconds)
- MTU-A Magnetotellurics and Audio-frequency Magnetotellurics 10kHz to 0.00002Hz (50 000 seconds)

FIELD SENSOR

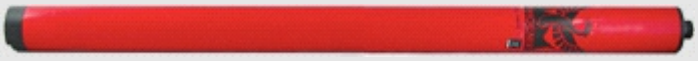




AMTC-30 magnetic sensor coils are used for AMT magnetic data acquisition. Weighing about 3 kg and measuring only 82.5 cm, AMTC-30 sensors are compact and portable while providing high-quality magnetic data at frequencies between 10 000 Hz and 1 Hz (natural signal) and between 10 000 Hz and 0.1 Hz (controlled source signal).



MTC-50H magnetic sensor coils weigh approximately 8 kg, and measure only 144 cm. They provide magnetotelluric data at frequencies up to 400 Hz and down to 0.00002 Hz (50 000 seconds). As of 2010, the MTC-50H replaces the older MTC-50 sensor.



MTC-80H 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-50H) and measure 97 cm in length (70% of the length of an MTC-50H). The MTC-80H provides good data from 400 Hz 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 PE5 non-polarizing electrodes