M5 Wideband MT System

Applications

Exploration for:

- Oil and gas
- Metals and minerals
- Groundwater
- Geothermal reservoirs
- Engineering and environmental

Monitoring of:

- Hazardous waste sites
- Karst terrains
- Active faults and earthquake zones
- Dams and dikes
- Hydrocarbon reservoirs

Main Features

One system does it all: MT, AMT, BMT, HMT

Simultaneous recording of high and low bands

While recording data:

- Direct access to live records
- Real time visualization of processed amplitude/phase

Ultra-wideband : AMT: 10kHz to 0.1Hz; MT: 1kHz to 0.00001Hz

Easy to use: controlled by a smart phone App

Lightweight: the receiver weighs only 3.5 kg

Rugged and environmentally sealed: IP67 compliant, water and dust proof

Automatic self calibration: for box and external sensors

Specifications

Receiver

- Channels: 6 channels (3 magnetic and 3 electric)
- Input Range: 16V PP @ 0db
- Input Impedance: Magnetic channels > 20kOhm
  Electric channels > 10MOhm
- Frequency Range: DC to 10 kHz
- Synchronization: Satellite synchronization + crystal oscillator synchronization with temperature compensation
- Timing Accuracy: Better than 30 ns
- Calibration: Automatic self calibration for box and external sensors
- Data Storage: Standard 64G (larger capacity on request)
- ADC: 32 bits (240,000 samples/sec max)
- Connectivity: USB, Ethernet, WiFi (You can download data while it is being collected, without interrupting the acquisition process)
- Weight: 3.5 kg
- Environmental: P67 compliant, water and dust proof
- Power consumption: < 5 watts @ 12V DC
- Power supply: external 12V lead-acid or lithium battery

S10 Sensor for AMT

- Range: 0.1 Hz to 10 kHz
- Sensitivity: 100 mv/nT
- Power Supply: 20mA@±12V
- Weight: 3 kg
- Dimensions: 81 cm x 6 cm dia.
- Compatible with all Phoenix receivers (V8, MTU-A)

Specifications

S50 Sensor for MT

- Range: 0.00001 Hz to 1000 Hz
- Sensitivity: 100 mv/nT
- Power Supply: 20mA@±12V
- Weight: 5 kg
- Dimensions: 140 cm x 5 cm dia.
- Compatible with all Phoenix receivers (V8, MTU-A)

S150 Broadband Sensor

- Range: 0.0001 Hz to 10000 Hz
- Sensitivity: 50 mv/nT
- Power Supply: 25mA@±12V
- Weight: 6 kg
- Dimensions: 130 cm x 5 cm dia.
- Compatible with all Phoenix receivers (V8, MTU-A)

T60 Current Source (Transmitter)

- Power Output: 0-60 kW
- Output Voltage Range: 50 to 2000 V
- Output Current Range: 0 to 100 A
- Input Voltage: Three-phase, 270 V–480 V
- Frequency Range: DC to 82 kHz
- Timing Control: GNSS synchronized ±0.03 µs (Drift of less than 1 ms over 10 hours without GNSS signal)
- Fault Protection: Output voltage/current out of range, power stack temperature high
- Bandwidth: DC to 200 kHz
- Wireless Communication: Built-in 4G + Wi-Fi
- Weight & Dimensions: 52 kg / 53 x 42 x 33 cm