M9 Muti-Function EM System

Applications

- Oil and gas
- Metals and minerals
- Groundwater
- Monitoring
- Engineering and environmental
- Geothermal reservoirs
- Earthquake prediction research
- Other deep geological structure studies

Main Features

- One system does it all: MT, AMT, CSAMT, CSHMT
- Small blind zone: Up to 81.92 kHz, with a small blind zone in shallow areas.
- High resolution: 50 frequency points between 81.92 kHz and 4 Hz.
- High-frequency scanning: One frequency point every 12 seconds.
- Lightweight: The receiver weighs only 4 kg with the lithium battery, while the transmitter weighs 6.5 kg.
- More efficient: Simultaneous parallel acquisition at five sampling rates (192 kHz, 24 kHz, 2400 Hz, 150 Hz, and 15 Hz).

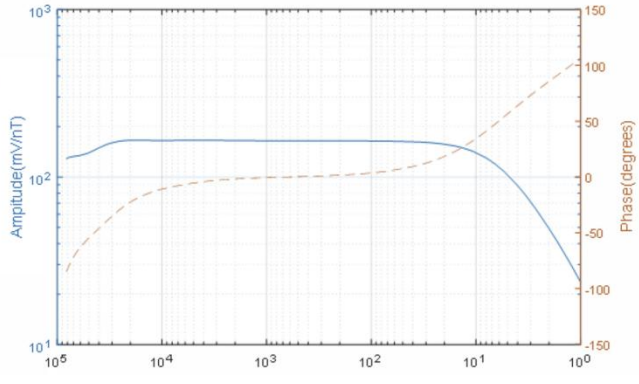
Specifications

Multifunction Receiver

- Channels: 5 channels (2 magnetic and 3 electric)
- Input Range: 10 V PP @ 0db
- Input Impedance: Magnetic channels > 20kOhm
  Electric channels > 10MOhm
- Frequency Range: DC to 92 kHz
- Timing Accuracy: ±20 ns
- Calibration: Automatic self calibration for box and external sensors
- Data Storage: Standard 32G (larger capacity on request)
- ADC: 32 bits (192,000 samples/sec max)
- Data Transfer: USB2.0
- Weight & Dimensions: 4 kg / 34 x 29.5 x 15.2 cm
- Environmental: IP67 dust- and water-resistant
- Built-in Battery: 14.8V 13Ah (can work 19 hours continuously)
- Power consumption: < 10 watts @ 12V DC
- Input Power: 12V battery or power adapter

S100 Magnetic Sensor

- Range: 0.1 Hz to 100 kHz
- Sensitivity: 150 mv/nT
- Power Supply: 20mA@±12V
- Weight: 2.1 kg
- Dimensions: 76.2 cm x 4.1 cm dia.



T60

- 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

T160

- Power Output: 0-160 kW
- Output Voltage Range: 50 to 2000 V
- Output Current Range: 0 to 200 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: 90 kg / 53 x 42 x 51 cm