

T-3 Multifunction Current Source for Geophysical Techniques

- Low cost
- Lightweight, highly portable
- Operates at -20°C to $+50^{\circ}\text{C}$
- No cable links required between transmitter and System 2000.net receivers (V8, RXU)
- Wide range of power sources: 50Hz or 60Hz motor generators or 12V batteries
- 32Hz to 16s (Time Domain); ~10kHz to 8s (Frequency Domain)

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|--------------------|--|
| 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) |

Wireless networking with RXU-TMR transmitter monitor and V8 receiver



T-3 Multifunction Current Source

The T-3 is a light-weight, versatile

multipurpose signal source for use in a variety of geophysical techniques. Weighing only 12kg, it is easily transportable on a backpack over virtually any terrain.

The T-3 can drive either inductive loads (loops) used in TDEM or FDEM techniques, or grounded dipoles used in IP, Resistivity, and CSAMT techniques.

Proven Technology

Phoenix design experience extends over 40 years, and the T-3 builds on this record. T-3 transmitters have been used in countless field surveys under every climatic condition worldwide.

Wide Range of Power Sources

The T-3 can be powered by one or more external 12V batteries or by Phoenix's selectable-voltage BP-24/72 battery pack.

Alternatively, the power source can be a standard geophysical motor generator, or any of a number of commercially available 50Hz or 60Hz motor generators. This flexibility means that the power source (and parts and service) can be obtained almost anywhere in the world.

System Integration

The T-3 can be controlled by a System 2000.net RXU-TM transmitter monitor, with or without radio networking to a V8 receiver.

Specifications

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|---------------------------|---|
| Dimensions | 20 x 40 x 55cm |
| Weight | 12kg |
| Displays | Output current (LCD); line voltage or output voltage (switchable meter) |
| AC Input | 50 or 60Hz, 200–240V, ≤3.5kVA |
| DC Input | 12–72V transmission and 12V control |
| Output Voltage | 300V, 600V, or 1100V nominal (1000V maximum in regulated markets) |
| Output Power | Maximum 2.2kVA |
| Output Current | 50mA to 9A |
| Current Regulation | Output ± 0.2% for ±10% variation in input voltage or electrode impedance |
| Internal Timing | 32Hz to 16s (Time Domain); ~10kHz to 8s (Frequency Domain) |
| External Timing | DC to ~10kHz, via cable link to suitable receiver or clock source such as RXU-TM, RXU-TMR, or MTU-TXC. (RXU-TMR includes radio networking with controlling V8-R multi-function receiver.) All Phoenix receivers and clock sources are GPS synchronized. |
| Protection | Over-current (10.2A max.) Under-current (~0.05A min.) Over-voltage (100% of full scale) Over-temperature |
| Environmental | Operating: –20°C to +50°C |

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