

THE GGT-3 TRANSMITTER

Backpackable



FEATURES

- Constant current supply
- Used for time/frequency domain IP, Resistivity, CR, TEM, CSAMT
- Broad-band: DC to 8 kHz (standard)
- Outputs up to 1000 V, 15A
- Fast turn off time: 125 μ sec (300 x 300 m loop)
- Drives a loop or grounded dipole
- Sealed construction for operation in wet environments
- Compact modular design
- Optional internal time base

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SPECIFICATIONS FOR THE GGT-3 TRANSMITTER

General

Description: Broadband, constant-current, time and frequency domain, backpackable geophysical transmitter
Enclosure: Welded, hardened aluminum frame inserted in a durable aluminum case
Size: 38 x 25 x 61 cm (15 x 10 x 24 in)
Weight: 30 kg (66 lb)
Operating temperature: - 40° to +55°C (- 40° to +130°F)
Operating humidity: 0 to 90%, non-condensing

Electrical Characteristics

Drives a loop or grounded dipole
Turnoff time: Under 10 µsec for a resistive load; 125 µsec for a 300 x 300 m loop (16 ohms resistance, full current) Maximum input: 3.5KVA @ 30°C
Output voltage range: 50 to 1000 V
Output current range: 0.1 to 15A
Current stability: ±0.1%
Frequency range: DC to 8 kHz

Switching Control

Switching controlled by external device
Recommended transmitter controller: XMT-32
Waveform type: Capable of virtually any type of pulse waveform, limited by external controller device

Controls

Power ON/OFF
Transmit/reset switch
Current adjust pot, continuously adjustable, locking
Voltage range switch (50-125 V, 100-250 V, 200-500 V, 450-750 V, 700-1000 V)
Loop/dipole select switch

Displays

Analog input voltage meter, 0-150 V
Analog output voltage meter, 0-1000 V
Power on/off lamp, transmit lamp, output lamp
Output current LCD (±0.01A)
Indicator lamps: control power on, transmit on, fan on, and transmit polarity
Fault indicator lamps: output and input over current, output and input over voltage, end of regulation, alternator over voltage, open circuit

Output Jacks

Current calibrate terminals (100 mV/A)
Output current terminals
Grounding jack

Power

Three-phase, 120 VAC, 400 Hz
Recommended motor generator set: ZMG-3 or BMG-3
Power connector: four-pin military screw-type with locking ring

Options

Spare parts kit (standard and extended kits available)
LCD heater for temperatures below - 15°C (+5°F)
Current monitor isoamp module
Resistor load bank
Switch box for rapid switching of dipole pairs
Internal timing board for specified IP-range frequencies
Pack frame