

THE GGT-10 TRANSMITTER

Versatile, Medium Power



FEATURES

- Constant current supply
- Used for time/frequency domain IP, Resistivity, CR, TEM, CSAMT
- Broadband: DC to 8 kHz (standard)
- Outputs up to 1000 V, 20A (Optional 30A)
- Fast turn off time: 125 μ sec (300 x 300 m loop)
- Drives a loop or grounded dipole
- Efficient, modular design
- Rugged design reliable in all climates
- Optional internal time base

Terraplus Inc.

52 West Beaver Cr. Rd. #12, Richmond Hill, ON. Canada L4B 1L9

Tel: 905-764-5505

Fax: 905-764-8093

Email: sales@terraplus.ca

Website: www.terraplus.ca

SPECIFICATIONS FOR THE GGT-10 TRANSMITTER

General

Description: Broadband, constant-current, time and frequency domain, medium power geophysical transmitter

Enclosure: Welded, hardened aluminum frame inserted in a high impact fiberglass case

Size: 53 x 51 x 37 cm (21 x 20 x 14.5 in)

Weight: 51 kg (113 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 μ sec for a resistive load; 125 μ sec for a 300 x 300 m loop (16 ohms resistance, full current)

Maximum input: 10KVA @ 30°C

Output voltage range: 50 to 1000 V

Output current range: 0.2 to 20A (Optional 30A)

Current stability: $\pm 0.2\%$

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 (50-250 V, 200-500 V, 450-750 V, 7001000V)

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

LCD:

Output current ($\pm 0.01A$)

Input power (0-30KW)

Transformer temperature

Loop turnoff time (microseconds)

Indicator lamps: control power on, transmit 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 (50 mV/A)
Output current terminals
Grounding jack

Power

Three-phase, 120 VAC, 400 Hz
Recommended motor generator set: ZMG-7.5
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
30 amp output