

# 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  $\mu$ 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](mailto:sales@terraplus.ca)**

**Website: [www.terraplus.ca](http://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  $\mu$ sec for a resistive load; 125  $\mu$ 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