GGT-10
Geophysical Transmitter

Versatile, Medium Power

FEATURES

- Constant current supply
- Used for time/frequency domain IP, Resistivity, CR, TEM, CSAMT
- Broad-band: DC to 8 kHz (standard)
- Output up to 1000 V, 20 A (Optional 30A)
- Fast turn-off time: 125 µsec (300 x 300 m loop)
- Drives a loop or grounded dipole
- Efficient, modular design
- Rugged design reliable in all climates
- Optional internal time base
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 µsec for a resistive load; 125 µsec for a 300 x 300 m loop (16 ohms resistance, full current)
Maximum input: 10KVA @ 30°C
Output voltage range: 50 to 1000V
Output current range: 0.2 to 20A (Optional 30A)
Current stability: ±0.2%
Frequency range: DC to 8 kHz

Switching Control
Switching controlled by external device
Recommended transmitter controller: Zonge 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 (50-250V, 200-500V, 450-750V, 700-1000V)
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 (±0.01A)
Input power (0-30 KW)
Transformer temperature
Loop turnoff time (microseconds)
Indicator lamps: control power on, transmit on, transmit polarity
Fault indicator lamps: output and input overcurrent, output and input overvoltage, end of regulation, alternator overvoltage, 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: Zonge 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

Specifications subject to change without notice
© Copyright 1998, Zonge International, Inc.