

GGT-10B 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, 25 A
- 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

SPECIFICATIONS FOR THE GGT-10 TRANSMITTER

General

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

Enclosure: Anodized blue aluminum case

Size: 55.9 x 40.6 x 35.6 cm (22 x 15 x 14 in)

Weight: 48.6 kg (107 lbs.)

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 1000V

Output current range: 0.2 to 20A

Current stability: \pm 0.2%

Frequency range: DC to 8 kHz

Switching Control

Switching controlled by external device

Recommended transmitter controller:

Zonge XMT, GDP or ZEN

Waveform type: Capable of virtually any type of pulse waveform, limited by external controller device

Controls

Power ON / OFF (Key for lock out/ tag out)

Transmit / Reset switches

Current adjust pot, continuously adjustable, locking

Voltage range TAP switch

50-250V

200-500V

450-750V

700-1000V

2A / 20A range select switch

Emergency Stop Switch

Displays

Analog input voltage meter, 0-150 V

Analog output voltage meter, 0-1000 V

Power On / Off LED, transmit LED, output LED

3&1/2 Digit Operating Information Display

Output current

Loop turnoff time (μ seconds)

Transformer temperature (°C)

Input power (KW)

Indicator LEDs: power on, reset valid, transmit on, transmit polarity

Fault indicator LEDs: output and input overcurrent, output and input overvoltage, end of regulation, generator overvoltage, open circuit, phase error

Output Jacks

Isolated Output Current (10 mV/A)

Isolated Output Voltage (10mV/V) Optional

Power

Three-phase, 120 VAC, 400 Hz \pm 15 Hz

Recommended motor generator set: Zonge ZMG.

Power connector: Hubbell, 4-Pole, 5-Wire.

Options

IGBT spare module

SCR spare module

ZCM-10 Isolated Output Voltage (10mV/V) Optional

Current monitor isoamp module:

LB6000 Resistor load bank

ETS-9 Switch box for rapid switching of dipole pairs

Optional internal time base

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