

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)
- Output up to 1000 V, 15 A
- Fast turn-off time: 125 μ sec (300 x 300m loop)
- Drives a loop or grounded dipole
- Sealed construction for operation in wet environments
- Compact modular design
- Optional internal time base



Zonge Engineering and Research Organization, Inc.

Specialists in Electrical Geophysics

• Field Surveys • Geophysical Consulting • Instrumentation Sales and Lease •

SPECIFICATIONS FOR THE GGT-3 TRANSMITTER

General

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

Enclosure: Welded, hardened aluminum frame mounted 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 μ sec for a resistive load; 125 μ sec for a 300 x 300 m loop (16 ohms resistance, full current)

Maximum input: 3.5 KVA @ 30°C

Output voltage range: 50 to 1000V

Output current range: 0.1 to 15A

Current stability: $\pm 0.1\%$

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

Current adjust pot, continuously adjustable, locking

Voltage range switch (50-125V, 100-250V, 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

Output current LCD ($\pm 0.01A$)

Indicator lamps:

Control Power ON

Transmit ON

Fan ON

Transmit Polarity

Fault indicator lamps:

Supply and output overvoltage

Alternator voltage

Open output

Input and output overcurrent

Over temp

End of regulation

Output Jacks

Current calibrate terminals (100 mV/A)

Output current terminals

Grounding jack

Power

Three-phase, 120 VAC, 400 Hz

Recommended motor generator set:

Zonge ZMG-3 or BMG-3

Power connector:

Four-pin military screw-type with locking ring

Options

Spare parts kit

(standard and extended kits available)

Current monitor isoamp module

Resistor load bank

Switch box for rapid switching of dipole pairs

Pack frame

Specifications subject to change without notice

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