

GGT-3 Geophysical 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

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
© Copyright 2012, Zonge International, Inc.*

Zonge Offices:

Arizona, Alaska, Nevada, Colorado and Oregon

Headquarters:

3322 E. Ft. Lowell Road, Tucson, AZ 85716, USA (800) 523-9913

Tel: (520) 327-5501 Email: zonge@zonge.com

Fax: (520) 325-1588 Web: <http://www.zonge.com>

20130110