



## **Scintrex/Zonge GGT-3**

### Transmitter

# GGT-3

## SPECIFICATIONS

### General

Description: Constant-current, time domain, backpackable geophysical transmitter  
Enclosure: Welded, hardened aluminum frame inserted 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 µsec for a resistive load; 125 µsec for a 300 x 300 m loop (16 ohms resistance, full current)  
Output voltage range: 50 to 1000 V  
Output current range: 0.1 to 15A  
Current stability: ±0.1%

### Controls

Power ON/OFF  
Transmit/reset switch  
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, 0-150V  
Analog output voltage meter, 0-1000V  
Power on/off lamp, transmit lamp, output lamp  
Output current LCD (±0.01A)  
Indicator lamps: control power on, transmit on, fan on, transmit polarity  
Fault indicator lamps: output and input overcurrent, output and input overvoltage, end of regulations, alternator overvoltage, open circuit

### Output Jacks

Current calibrate terminals (100 mV/A)  
Output current terminals  
Grounding jack

### Power

Three-phase, 120 VAC, 400 Hz  
Recommended motor generator set: ZMG-3 or BMG-3  
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° (+15°F)  
Current monitor isoamp module  
Resistor load bank  
Switch box for rapid switching of dipole pairs  
Pack frame



**CANADA**  
**Scintrex**  
222 Snidercroft Road  
Concord, Ontario, Canada L4K 2K1  
Telephone: +1 905 669 2280  
Fax: +1 905 669 6403  
e-mail: [scintrex@scintrexltd.com](mailto:scintrex@scintrexltd.com)  
Website: [www.scintrexltd.com](http://www.scintrexltd.com)

**USA**  
**Micro-g LaCoste**  
1401 Horizon Avenue  
Lafayette, CO 80026  
Telephone: +1 303 828 3499  
Fax: +1 303 828 3288  
e-mail: [info@microglacoste.com](mailto:info@microglacoste.com)  
website: [www.microglacoste.com](http://www.microglacoste.com)

# POWER SYSTEMS FOR GEOPHYSICAL TRANSMITTERS

*Rugged Custom-Designed Motor/Generators*



BMG-3



ZMG-30



ZMG-3



ZMG-10



ZMG-7.5

## FEATURES

- Five power systems, from portable 3 kW to trailer-mounted 30 kW
- Exceptionally rugged and field-proven
- Power systems drive Zonge Engineering and other transmitter

**Zonge Engineering and Research Organization, Inc.**

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# SPECIFICATIONS FOR THE MOTOR/GENERATOR SETS

	BMG-3	ZMG-3	ZMG7.5	ZMG-10	ZMG-30
<b>Engine</b>					
Cyl/cycle	114	114	2/4	2/4	4/4
Power (hp @ rpm)	5 @ 3600	8 @ 3600	18 @ 3600	22 @ 3150	62 @ 2400
Fuel	Regular/unleaded				
Starter	Manual	Manual	Electric	Electric	Electric
<b>Alternator</b>					
Output (kva)	2.5	2.5	9	32	32
Type	120/208 VAC/400 Hz/3-phase				
<b>Base Frame</b>					
Construction	Aluminum	Aluminum	Aluminum	Steel	Steel
Size (cm) <sup>1</sup>	19x34	36x46	46x792	69x94	91x137
<b>Assembled Unit</b>					
Power (kva)	2.5	2.5	7.5	10	30
Size (cm) <sup>1</sup>	36x46x71	51x71x51	46x79x56 <sup>2</sup>	69x94x74	91x142x79
(in) <sup>1</sup>	14x18x28	20x28x20	18x31x22 <sup>2</sup>	27x37x29	36x56x31
Weight (kg)	36	52	107	204	432
(lb)	78	114	235	450	950
Ship. Wt. (kg)	68	82	162	264	500
(Ob)	150	180	355	580	1100
Fuel Supply	Internal	Internal	External	External	External
Power Cable	Included	Included	Included	Included	Included
Voltage Regulator	Included	Included	Included	Included	Included
<b>Trailer-mounted ZMG sets</b>					
Size (m) <sup>1</sup>	-	-	-	1.8x3.2x1.5	1.8x3.2x1.8
(ft) <sup>1</sup>	-	-	-	5.9x10.5x5.0	5.9x10.5x5.9
Wt. w/full tanks (kg)	-	-	-	794	998
(lb)	-	-	-	1750	2200
<b>Options</b>	Spare parts	Spare parts	Spare parts	Spare parts	Spare parts

1 All sizes specified in width x length x height

2 Mounted in a skid measuring 74x94x66 cm (29x37x26 in)



**Zonge VR-1**  
Voltage Regulator  
included with all  
Motor/Generators

Specifications subject to change without notice

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## Zonge Engineering and Research Organization, Inc.

### Offices:

Arizona, Alaska, Nevada, Australia and Chile

### Headquarters:

3322 E. Ft. Lowell Road, Tucson, AZ 85716, USA (800) 523-9913  
Tel: (520) 327-5501 Fax: (520) 325-1588 Email: zonge@zonge.com,  
www.zonge.com