

RG-5



FEATURES:

- Transformer Isolated Output
- Programmable Frequency & Voltage
- Sunlight Readable Display
- 360 - 11000 Hz with 1Hz Resolution
- 1.9 - 125 Volt Output with AGC
- Compact Portable Design
- Includes Universal Power Adapter
- Settings Saved When Power Removed
- Output is Short Circuit Protected

APPLICATIONS:

- Field Calibration
- System Test
- Portable Test Equipment
- Aircraft Maintenance

General Description

The RG-5 is a compact portable sine reference generator capable of driving synchros up to size 11, and most resolvers. The frequency is programmable from 360Hz to 11000Hz in 1 Hz steps. The voltage is programmable from 1.9V to 125.0V in 0.1V steps, and has automatic gain control, so the output voltage is load independent. The output is transformer isolated. An output On/Off switch is provided, which is illuminated when the output is on. The output will shut off automatically if a short circuit or over-current condition is detected. The current frequency and voltage settings are retained when the power is removed.

The displays are transfective, making the RG-5 sunlight readable.

DETAILED DESCRIPTION

Frequency

The frequency is programmable from 360 to 11kHz in 1Hz steps using the up and down switches directly below the frequency LCD display. The frequency LCD display shows the currently set frequency in Hz. The last frequency setting is retained when the RG-5 is powered up.

Voltage

The voltage can be set from 1.9V to 125V in 0.1 volt increments using the up and down switches directly below the voltage LCD display. A RANGE switch is located on the side of the unit below the Frequency down switch. The RANGE switch is used to select between the low range, which is 1.9V to 28V, and the High Range, which is 26V to 125V. The voltage LCD display shows the currently set RMS output voltage. The last voltage setting is retained when the RG-5 is powered up.

The output voltage is load independent. An Automatic Gain Control (AGC) automatically adjusts the output to compensate for loading effects. Thus, the output can be set prior to connection to the load.

Output

The output is transformer isolated. The output terminals are located on the left side of the unit. Sheathed banana plug cables and heavy duty alligator clips are provided with the RG-5. The output is enabled using the green switch. This switch is illuminated when the output is on.

The output is automatically disabled if a short circuit or overload condition is detected, or if the RANGE switch is changed.

SPECIFICATIONS

Frequency

Range	360Hz - 11000Hz
Accuracy	±0.5Hz

Voltage Output

Lo Range	1.9V to 28.0V
Hi Range	26.0V to 125.0V
Accuracy (at 25°C)	± 1.5%
Resolution	0.1V

Displays

Type	Transflective LCD
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Power Output (Note 1)

Lo Range	5VA at 26V out, 25°C
Hi Range	5VA at 115V out, 25°C

Power Input

Voltage	10V to 24V DC
Current (with 12V in)	
Output Off	20mA typ. (40mA in Lo Range)
Output On	1100mA max
Connector	Male, center positive, 2mm

Temperature Range

Operating	0°C to +50°C
Storage	-20°C to +70°C

Physical

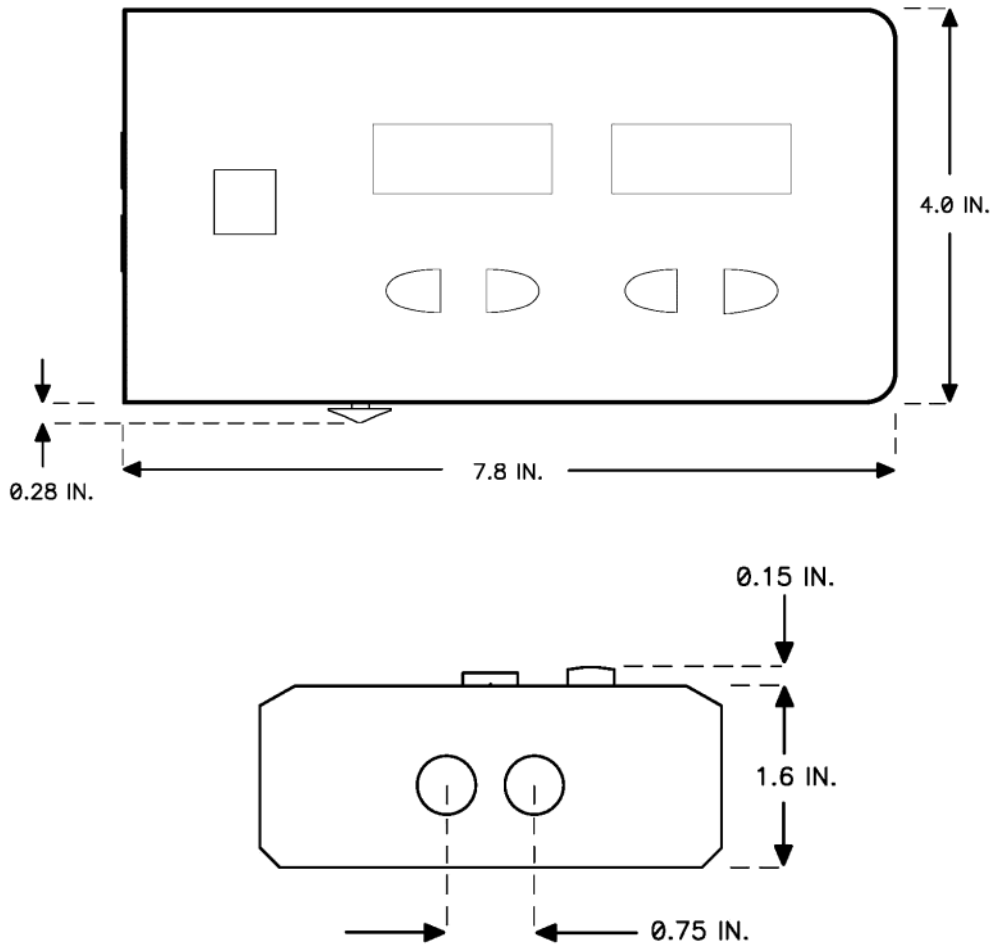
Dimensions	7.8" x 4.3" x 1.8"
Weight	12.0 oz

Note 1: Power is de-rated as output voltages decrease

WARNING:

Use extreme caution! The RG-5 output is capable of generating potentially lethal voltages. Only trained, qualified personnel should use, maintain, or service it.

MECHANICAL OUTLINE (NOT TO SCALE, DIMENSIONS IN INCHES)



ACCESSORIES

The RG-5 comes with the following accessories:

1. 12V (1.5A) AC-DC Power Supply with North American AC Blade
2. Sheathed Cables with Alligator Clips

WARRANTY

All units warranted against defects in materials and workmanship for 1 year from date of shipment. Liability is expressly limited to servicing, adjusting, or replacing any CSI product returned to our factory with delivery charges prepaid. In no case shall our liability exceed the original purchase price.