The SG series of Miniature Signal Generators are supplied with control software, USB to mini USB cable and AC power supply adaptor.

### RF Performance

**Operating frequency range**
- 25—15GHz

**Frequency Range**
- 25 - 15000 MHz

**Frequency Step Size**
- 1Hz for <6GHz, 10Hz for 6—15GHz

**Output Power Level**
- +13dBm, < 3GHz
- +6dBm, 3—6GHz
- 0dBm, 6—15GHz

**Output Range**
- +13dBm to -17dBm, 0.5dB Steps (output level set in dBm), < 3GHz
- +6dBm to -17dBm, 0.5dB Steps (output level set in dBm), 3-6GHz
- +0dBm to -17dBm, 0.5dB Steps (output level set in dBm), 6-15GHz

### Control Interface

**USB:** Virtual COM port
**RS-232:** 9-pin male D-sub connector
**Ethernet:** RJ45 connector

### Output Modes

- Continuous
- Sweep
- On/Off via external trigger

### External Trigger

Pin 4 of RS-232 connector: Pulse TTL/RS232 levels, 50ms min. pulse width

### Status Indicators

- Power
- Lock
- RF Output
- Reference Out

### PC User Interfaces

Third-party terminal application (e.g. HyperTerm):  
- ASCII commands
- Graphical User Interface Executable File:  
  - Adjust frequency and output power level
  - Set reference frequency
  - Select operation mode
  - Set power-on defaults
  - Adjust sweep configuration
  - Change device network settings
  - Control multiple units

### Internal Memory

- Non-volatile, automatically stores most recent settings

### Environmental

**Operating Temperature**
- -20 to +50°C

**Storage Temperature**
- -40 to +85°C

### Mechanical

**Dimensions**
- 163mm x 103mm x 30.5mm

**Weight**
- <300g

**Material**
- Aluminium extrusion with black legend
- Rubber Feet

**Options:**
- OPT01: +20dBm output level (in 19" x 1U)
- OPT02: Rechargeable Battery Powered (not with 19" x 1U)
- OPT03: Portable Bench Instrument - 260 x 150 x 420 mm
- OPT04: Ruggedised Portable Instrument - 340 x 310 x 245 mm
- OPT05: Weatherproof ODU - 360 x 210 x 95 mm (remote control only)
- OPT06: ASG Mounting Bracket Pair - Supplied fitted to the unit

**Note 1:** The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

**Note 2:** Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.