

## FEATURES

- Simulates accelerometer signals
- Menu selectable RMS, pk or pk-pk
- Tachometer TTL and OSO outputs
- BOV accelerometer testing
- Menu-driven operation
- Multi-language menu
- Metric and Imperial units
- Battery operated
- PC connection (menu control)



*The Commissioner SS-1000GT*

## DESCRIPTION

Meet Spectrum Instruments' "**Commissioner**" line of battery operated instruments that are used to electronically simulate a variety of outputs from various types of sensors.

The "**Commissioner**" **SS-1000 Series** instruments use a menu-driven 4 x 16 character LCD display to establish the appropriate settings. An easy to use five sealed button control panel are marked with simple arrows and "E" for enter. An on/off button is conveniently located on the faceplate of the instrument.

Power is supplied by four(4) internally mounted AA Ni-MH batteries which can be recharged with a regulated 9VDC power supply (included).

Output signals of the **SS-1000GT** include a single-ended voltage (mv) to simulate moving coil sensors, a pC single-ended and pC differential signal simulates charge amp sensors, current-limiting IEPE(ICP type accelerometers), tachometer (TTL), OSO (Optical Speed Output) and BOV measurement for determining the health of field mounted IEPE type accelerometers without removing the sensor from the machine. Adjustable frequency range can be varied from 1 Hz to 1k Hz; output voltage is RMS from 1mv to 10V or 1pC to 10,000pC. Outputs can be provided in acceleration, velocity, displacement, voltage or charge formats.

## APPLICATIONS

The "Commissioner" is suitable for inspecting measurement loops according to ISO 10816 standards. The instrument is designed to support Condition Monitoring System (CMS) and/or Vibration Monitoring Systems (VMS) that connect to SCADA and Data Acquisition Systems.

## SS-1000GT SPECIFICATION

*(all technical data can be changed without notice)*

### Outputs

Type	single-ended voltage (mv) IEPE (ICP) – current limiting Single-ended charge (pC) Differential charge (pC) Tachometer (TTL) OSO – Optical Speed Output Accelerometer BOV Test Output
Frequency Range	1Hz to 1kHz, accurate to +/-1%
Amplitude	Adjust up to 10,000 mV RMS
Distortion	<1%, 2Hz to 1kHz, 10mv-10,000mv

### Transfer Characteristics

Amplitude accuracy	+/-1% of setting on any range
Amplitude stability	0.03%/Deg C of max change -10 - 65 Deg C
Frequency accuracy	+/-1% of setting on any range
Frequency stability	+/- .5% of max change -10 - 65 Deg C
Harmonic distortion	1% maximum, from 10Hz to 2kHz

### Environmental Characteristics

Temperature	
Operating	-10 – 65 Degree C
Storage	-18 – 65 Degree C
Humidity	95% RH maximum

### Power

Battery	4 AA rechargeable Ni-MH (incl.)
Operating Time	> 5 hrs. when fully charged

### Physical Characteristics

Dimensions	196 mm x 100 mm x 40 mm
Weight	0.5kg
Case	Molded plastic case
Connection	mv, IEPE, BOV and Tachs – BNC Single/dual pcf – microdot USB - Lemo
Front panel controls buttons	5 sealed (arrows, E & power)
Front panel display	4 line LCD panel, 64 character

## ORDERING INFORMATION

### Each SS-1000GT Kit includes:

1 x SS-1000GT sensor simulator	1 x operator's manual
1 x 9 VDC ULc charger (100/240 VAC)	1 x soft carry case
4 x AA rechargeable NiMH batteries	

### Available Options

**Calibration Certificate** - in accordance with ISO 17025, traceable to National Standards  
**Annual Performance Check (Save \$)** – confirms output accuracies; c/w traceable certificate  
**Annual Calibration c/w Certificate** – includes re-calibration of unit; c/w traceable certificate  
**TC-SMALL** hard case with space for optional assorted cables, adapters (deletes soft case)  
**TC-LARGE** hard case (stores SS-1000, standard accessories with space for assorted optional cables, adapters purchased separately (deletes soft case)  
**SS-1000-BC** – replacement/spare 9 VDC ULc battery charger (110/240 VAC)  
**SS-1000-BAT**- replacement/spare set of 4 replacement AA Type NiMH batteries  
**Cables / Adapters** – see below



## OPTIONAL CABLES / ADAPTERS

(short list – call with requirements)

### Part #

### Description

#### ADAPTERS

<b>R6BNC</b>	Adapter – BNC to 2-pin mil connector, 316L housing – supports connection of 2-socket accelerometer mil connectors	
<b>AD-103</b>	Adapter – Male BNC to Male BNC	
<b>BNC Cap</b>	Metal BNC caps with integral dust seal to protect un-used BNC connections	

#### STRAIGHT CABLES

<b>R2-0-J10-6</b>	Cable Assembly, BNC to blunt cut, 6' x 2-cond shielded cable c/w flex poly jacket
<b>R2-0-J10-16</b>	Cable Assembly, BNC to blunt cut, 16' x 2-cond shielded cable c/w flex poly jacket
<b>R2-0-J10-XX</b>	Cable Assembly, BNC to blunt cut, <i>specify length</i> x 2-cond shielded cable c/w flex poly jacket

#### RETRACTABLE CABLES

<b>R2-0-J88C-6</b>	Cable Assembly, BNC to blunt cut, 6' x 2-cond shielded cable c/w flex poly jacket
<b>R2-0-J88C-10</b>	Cable Assembly, BNC to blunt cut, 10' x 2-cond shielded cable c/w flex poly jacket
<b>R2-0-J88C-16</b>	Cable Assembly, BNC to blunt cut, 16' x 2-cond shielded cable c/w flex poly jacket

Contact Spectrum Instruments Ltd or your nearest Spectrum dealer for:

**SALES**  
**REPAIRS**  
**TRAINING**  
**CALIBRATION**

Your local dealer is:

44 Forest Drive, Brighton, Ontario K0K 1H0 Canada  
P: 1-613-439-8767 F: 1-866-782-0106