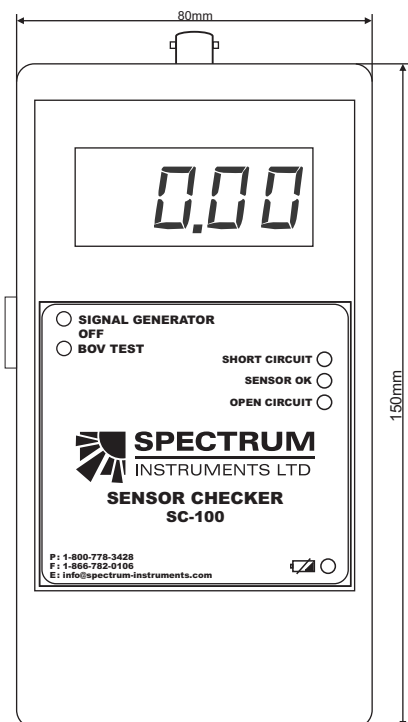


SC-100 Sensor Checker



Features

- BOV sensor test
- Simple IEPE sensor simulator
- Easy to use
- LCD for reading measured voltage
- LED indication of sensor status
- Side switch for mode selection
- Empty battery detection



Description

SC-100 is a battery operated easy to use instrument that is used to check sensor condition by measuring bias voltage and to electronically simulate IEPE sensor output from accelerometers.

Power is supplied from one 9V alkaline internally mounted battery. There is also a LED indication of low battery.

Working mode can be selected by side switch mounted on left side. There is also a visual identification of selected mode placed on the front panel. In the middle position device is off.

In BOV TEST mode user can read measured bias voltage on the screen and sensor status on the LED diodes on the front panel. There are predefined sensor status which are depending from the bias voltage and they are: short circuit, sensor ok and open circuit. For short circuit, measured bias voltage is below 7V. For open circuit measured bias voltage is more than 15V. For sensor ok, measured bias voltage is between 7V and 15V. If the customer want different voltage levels, changes are possible free of charge before shipment.

In SIGNAL GENERATOR mode, instrument produce fixed frequency sinusoidal signal to simulate accelerometer or velocity meter output.

Parameters for checking (for sensor sensitivity 100mV/g)

| | 160Hz | |
|------------------|-------|-------|
| units | RMS | PEAK |
| mV | 100 | 141.4 |
| m/s ² | 9.81 | 13.87 |
| g | 1 | 1.41 |
| mm/s | 9.75 | 13.79 |
| ips | 0.38 | 0.54 |

Specifications

Outputs

Type BOV - Bias Output Voltage
IEPE (ICP[®]) - current sinking

Signal generation

Amplitude 100mV RMS, sinusoidal
Amplitude accuracy ±1.0%
Frequency 160Hz
Frequency accuracy ±1.0%
THD <1%

Environmental characteristics

Temperature
Operating -10°C to +65°C
Storage -18°C to +65°C
Humidity 95% R.H. maximum

Power

Battery 1 x 9V Alkaline 9V (6LR61) battery
Autonomy More than 5h in BOV Test mode
More than 10h in Signal Generator mode

Physical characteristics

Dimension 150mm x 80mm x 30mm
Weight 0.5kg typical
Case Molded plastic case
Connection BOV, IEPE - BNC