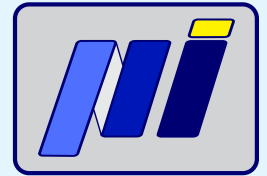
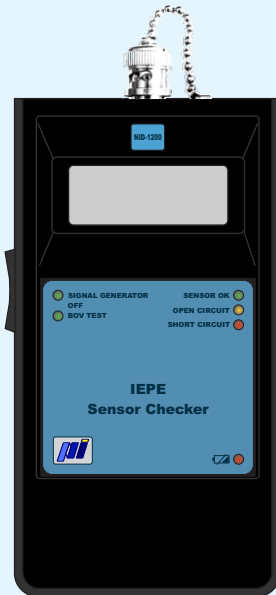


NID-1200 IEPE Sensor Checker



Features

- IEPE (ICP[®]) sensor BOV (Bias Output Voltage) test
- IEPE (ICP[®]) sensor simulator (100.0mV RMS, 160Hz)
- Easy to use
- LCD for reading measured voltage
- LED indication of sensor status
- Slide switch for operating modes selection
- Empty Battery Detection



Description

NID-1200 IEPE Sensor Checker is a battery operated, easy to use instrument that is used to check sensor condition by measuring DC Bias voltage and to electronically simulate IEPE (ICP[®]) sensor output.

Power is supplied from one internally mounted 9V Alkaline battery. There is also a LED indication of Low Battery status.

Operating modes can be selected by slide switch mounted on the left side. There is also a visual identification of the selected mode by LEDs placed on the top panel. In the middle position of the switch, device is Off.

In BOV TEST mode, user can read measured DC Bias Voltage on display and check the sensor status by LEDs on the top panel. There are three predefined sensor statuses which depends on the Bias Voltage: SHORT CIRCUIT, SENSOR OK and OPEN CIRCUIT. Short Circuit LED is lit if the measured bias voltage is below 7V. Open Circuit LED is lit if the measured bias voltage is more than 15V. Sensor Ok LED is lit if the measured bias voltage is between 7V and 15V. If the customer needs different voltage limits, changes can be done free of charge, before the shipment.

In SIGNAL GENERATOR mode, instrument supplies fixed frequency sinusoidal signal (100.0 mV RMS, 160.0 Hz) to simulate IEPE (ICP[®]) sensor output.

Specifications

Inputs - Outputs

BOV Input IEPE (ICP[®]) DC BOV (Bias Output Voltage) input
Signal Output IEPE (ICP[®]) fixed frequency, sinusoidal signal output

Signal Generation

Amplitude 100.0 mV RMS
Amplitude accuracy ± 0.5 %
Frequency 160.0 Hz
Frequency accuracy ± 0.5 %
THD < 1.0 %

Environmental Characteristics

Temperature
Operating +14°F to +131°F (-10°C to +50°C)
Storage -0.4°F to +131°F (-18°C to +50°C)
Humidity 95% R.H. maximum

Power

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

Physical Characteristics

Dimension 6.65in x 3.15in x 1.18in
Weight 1.1lb typical
Case ABS molded plastic
Connector BNC

NOTE: All technical data can be changed without notice.

Application Note



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

