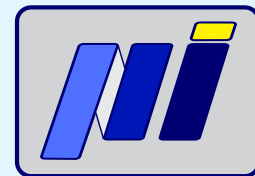


NID-2050

Proximity Probe Signal Simulator



Features

- Simulates various proximity probes signal outputs
- Fully compliant with the requirements of ISO 20816 standards
- Operates in two modes: stand-alone and PC based
- The software includes a sensors/transmitters database
- Automatic creation of reports in PC mode enabled
- Menu-driven operation
- Multi language menu
- Metric and Imperial units
- PC connection
- Battery operated

Application Note

NID-2050 Proximity Probe Signal Simulator is suitable for checking and calibration measurement lines for dynamic and static parameters analysis.

Gap function allows quick verification of Proximity Probe position against the target object. Device is especially optimized for Machinery Monitoring Systems (MMS).



Description

NID-2050 Proximity Probe Signal Simulator is a battery operated instrument which is used to electronically simulate outputs from various types of Proximity Probe Drivers. The device can be used as stand-alone device or it can be PC driven via embedded USB communication.

In PC mode the device provides all the benefits of a stand-alone mode, with the difference that includes a number of useful tools that make it easier to use. Thus, for example, the software contains a database of Proximity Probes major manufacturers in the area of vibration and also has the option of "Customer defined". By using the profile enables storing of data settings for future use.

Specifications

Input/Outputs

Output types

Static Output (DC Voltage)
Dynamic Output (DC+AC Voltage)

Input type

GAP Input Voltage

Frequency range

DC to 10kHz

Output range

Depend on selected type of Proximity Probe

Transfer Characteristics

Amplitude accuracy

$\pm 0.5\%$ of settings on any range

Amplitude stability

0.03%/°F maximum change from 14°F to 149°F

Frequency accuracy

$\pm 0.02\%$ of settings on any range

Frequency stability

$\pm 0.5\%$ of maximum change from 14°F to 149°F

Total harmonic distortion

$\leq 0.1\%$ 1Hz to 2kHz; $\leq 0.15\%$ 2kHz to 10kHz

Environmental Characteristics

Temperature

Operating

14°F to 149°F

Storage

-0.4°F to 149°F

Humidity

95% R.H. maximum

Power

Battery

4x AA rechargeable Ni-MH supplied

Autonomy

More than 5 hours when fully charged

Physical Characteristics

Dimension (LxWxH)

8.19in x 3.94in x 1.57in

Weight

1.126 lb (including batteries)

Case

Molded Plastic Case

Connection

Proximity Probe Output - BNC Twinax Connector

GAP Input - BNC Connector

USB 2.0 - ODU Connector 4 pin

Front Panel Controls

Five sealed switches (Arrows, E, Back and ON/OFF)

Front Panel Display

4 line LCD panel with 64 character

NOTE: All technical data can be changed without notice.

