

NID-1001 & NID-1003 TEDS Interface Kits



Features

- Reading TEDS information from the sensor
- Allows updating of sensor calibration data
- All IEPE TEDS sensors are supported
- Supports ISO/IEC/IEEE 21451-4:2010
- PC based, user-friendly software
- USB powered, plug and play
- Triaxial accelerometer support



Description

NID-1001 and NID-1003 are PC based TEDS Interface Kits. They can be used to read or write TEDS information in supported TEDS sensors. Software covers ISO/IEC/IEEE 21451-4:2010 standard for smart transducers interface. It is designed to read/write TEDS information using the mixed mode communication protocol.

Interface Kits support all standard Templates according to the ISO/IEC/IEEE 21451-4:2010 standard. Non-standard Templates can be easily added upon the customer request.

TEDS Interface Kit is Plug & Play, USB powered from PC.

There are two versions of TEDS Interface Kit: single axial with one 10-32 connector (Microdot) and triaxial with three 10-32 connectors. There are also versions for left-handed and for right-handed people.

PC software is easy to use, with an upgrade possibility. The sensor information can be also stored to the file.

Standard interface kit includes: hardware and software with two Templates upon the customer request.

Specifications

Outputs

PC connection: USB 2.0
Sensor connection: 10-32 Connector (Microdot)

Environmental Characteristics

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

Physical characteristics

Dimension: 68 mm x 25 mm x 13 mm
Weight: 16 grams
Case: Molded plastic case



The screenshot shows the software interface with the following fields:

- File Device Help** (Menu)
- Extended TEDS**
 - Selector 1: 0 - Acceleration Extended Functionality - r
 - Sensitivity @ ref condition: 0.010128063 V/(m/s²)
 - High pass cut-off frequency: 0.313102429 Hz
 - Sensitivity direction (x, y, z): x
 - Transducer weight: 7.949684720 gram
 - Polarity: positive
 - Transfer function: 1 - Transfer Function
 - Low pass cut-off (F lp): 32989.69029 Hz
 - Resonance frequency (F res): 31816.32268 Hz
 - Quality factor at F res: 56.5070885966758
 - Amplitude slope (a): -2.3 %/decade
 - Temperature Coefficient (b): 0.1 %/°C
- Reference frequency: 98.69278635 Hz
- Reference temperature: 23 °C
- Calibration date: 2014.01.21
- Calibration initials: LH
- Calibration period: 365 days
- Measurement location ID: 4

Template
Template: 25 Accelerometer & Force

Basic TEDS

- Manufacturer: Dytran Instruments
- Model: 3056
- Version Letter: B
- Version: 2
- Serial Number: 11921

