

PORTABLE TEDS READER

**MODEL
5701**

- **Portable Transducer Electronic Data Sheet (TEDS) Reader/Writer**
- **Reads all Common TEDS Formats**
 - IEEE 1451.4 Version 1.0
 - IEEE P1451.4 Version 0.9
 - LMS Templates 117 & 118
- **Writes Information to User Fields**
- **System includes:**
 - PDA (Pocket PC)
 - Interface Cable

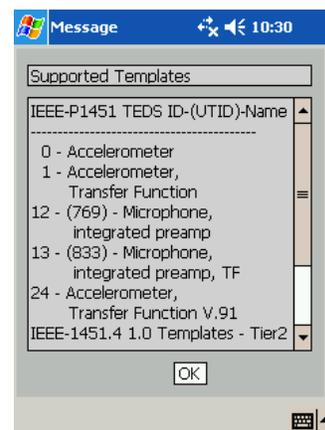
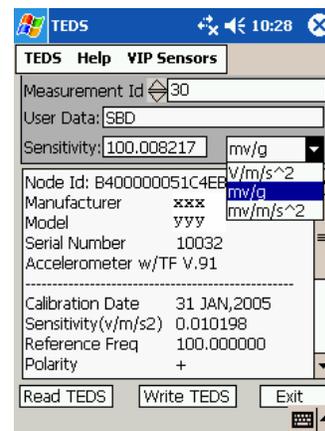


Description

The VIP Sensors Model 5701 TEDS Reader is a portable engineering tool for automatically reviewing the contents of TEDS data stored in a memory chip. Using a PDA (Pocket PC) as its control/readout device, the TEDS Reader displays the contents of the TEDS memory chip inside the transducer. Using the PDA, you can also write user-specific information to the memory chip.

Unlike previous devices that only read certain lines of a template, the Model 5701 TEDS Reader shows the entire transducer data sheet in full detail. The transducer sensitivity can be displayed in either SI or English units, and each TEDS data file can be stored in the PDA.

The TEDS Reader supports all of the templates for the newly released IEEE 1451.4 Version 1.0, the legacy templates of IEEE P1451.4 (0, 1, 12, 13 and 24) for accelerometers/microphones, the LMS 117 template, and the LMS 118 template.



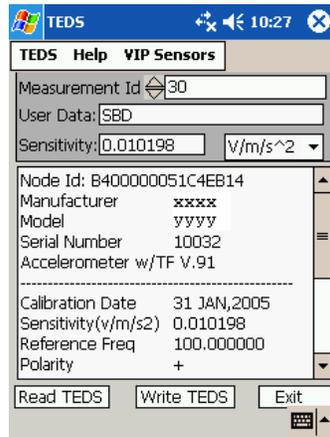
PORTABLE TEDS READER

MODEL 5701

Read TEDS

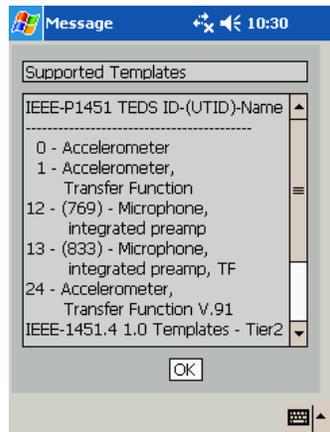
With a TEDS transducer properly connected to the interface cable, selecting the "Read TEDS" button will produce a screen such as this. This screen contains all of the TEDS data that is stored in the TEDS transducer.

The "Measurement ID" and "User Data" fields can be configured by the user and written to the TEDS transducer by selecting the "Write TEDS" button.



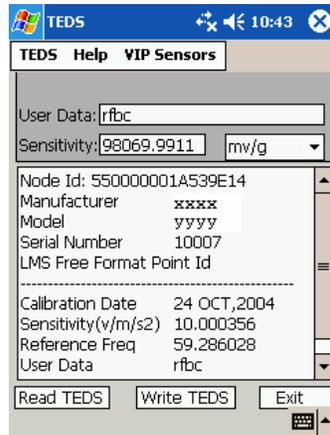
Supported Templates

This screen documents all templates supported by this version of the TEDS Reader. For example, the templates shown on this screen are from the IEEE P1451.4 (0, 1, 12, 13 and 24) and from IEEE 1451.4 Version 1.0 (Tier 2) standards.



LMS 117 TEDS

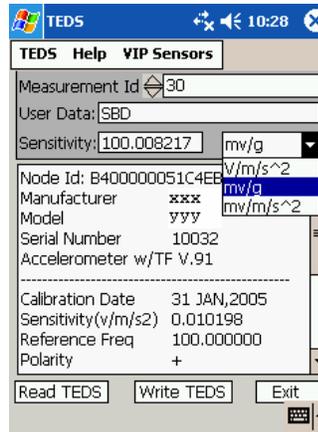
A transducer with template LMS 117 will produce the same screen as that shown under the Read TEDS section described above. A key difference is that only the User Data field is available to the user per LMS 117, and the Measurement ID field is not available.



Sensitivity Units

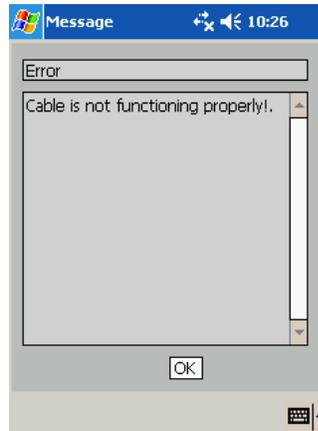
A pulldown menu for Sensitivity allows the user to select the appropriate units from a list of alternatives. The number in the Sensitivity field is automatically updated to reflect the appropriate units.

The units displayed for the Sensitivity field (e.g. mV/g, mV/psi, etc.) reflect the type of transducer (e.g. accelerometer, pressure, etc.) connected to the TEDS Reader.



Diagnostics

Various diagnostics have been incorporated into the operation of the TEDS Reader to help ensure correct operation and alert the user of specific problems.



LMS 118 TEDS

With an LMS 118 transducer properly connected to the interface cable, the content of the data in each of the fields shown on the left can be modified by the user and written to the LMS TEDS transducer by selecting the "Write TEDS" button.

