

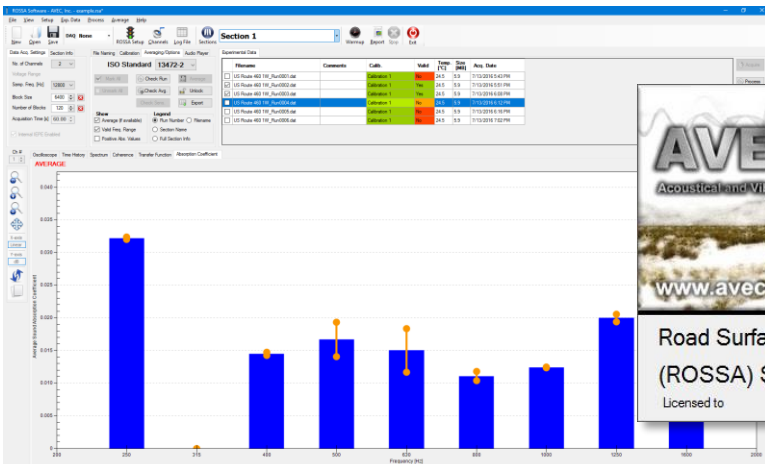


[www.avec-engineering.com](http://www.avec-engineering.com)

## ROAD SURFACE SOUND ABSORPTION (ROSSA) SYSTEM

AVEC, Inc. developed the **ROSSA** (Road Surface Sound Absorption) system, a convenient tool to measure pavement sound absorption properties according to the latest ISO Standard.

Our ROSSA software is the core of the system. Features like guided system calibration, instant results validation, multi-section testing, and automated report generation provide a hassle-free user experience that maximizes productivity.



**AVEC, Inc.**  
Acoustical and Vibrations Engineering Consultants  
[www.avec-engineering.com](http://www.avec-engineering.com)

Road Surface Sound Absorption (ROSSA) Software  
Version 1.00  
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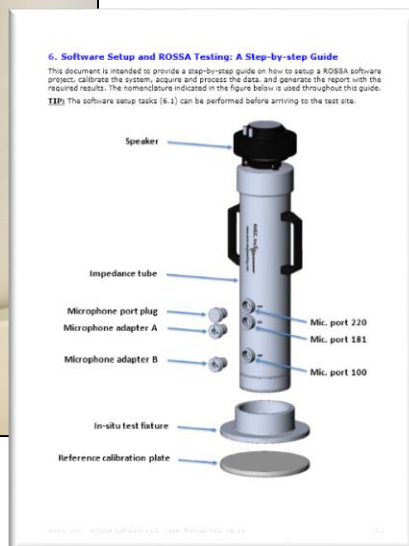
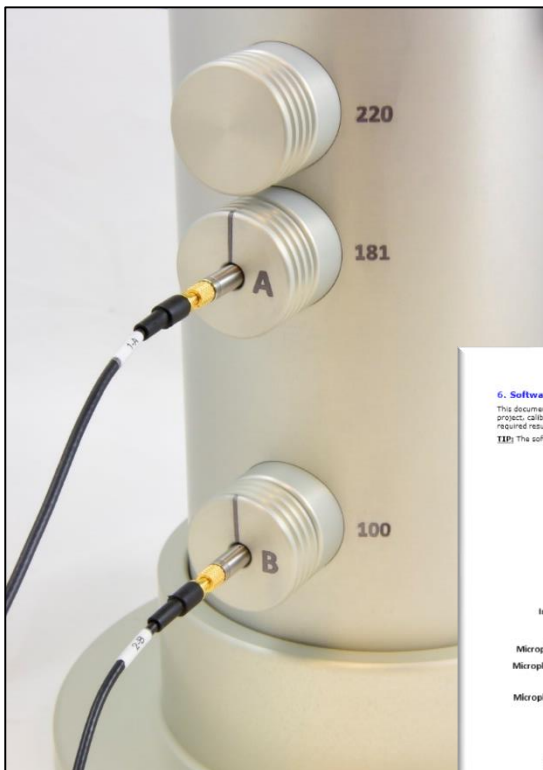
## Turn-key Solution

- **Our turn-key solution includes:**

- AVEC's ROSSA Software and Hardware.
  - Aluminum (tube) and stainless steel (calibration plate) construction.
  - USB powered speaker system and cabling.
  - Detailed user manuals with step-by-step procedures
- Two (2) GRAS 1/4" pressure-field microphones.
- GRAS sound level calibrator.
- NI data acquisition system (USB, 4 channels).
- Semi-rugged laptop PC (with ROSSA software pre-installed).
- Carrying case for ROSSA system and laptop.

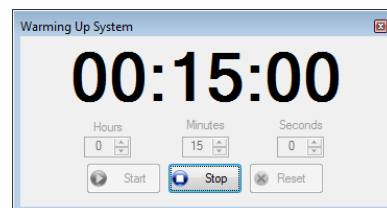
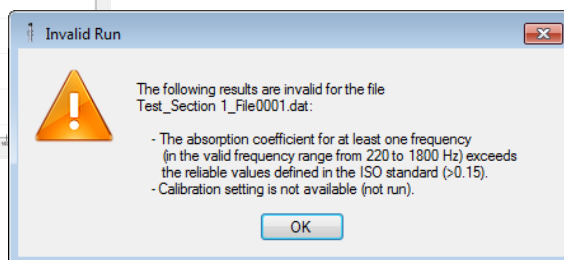
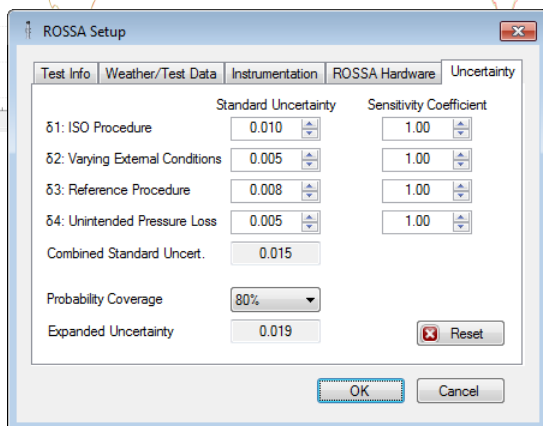
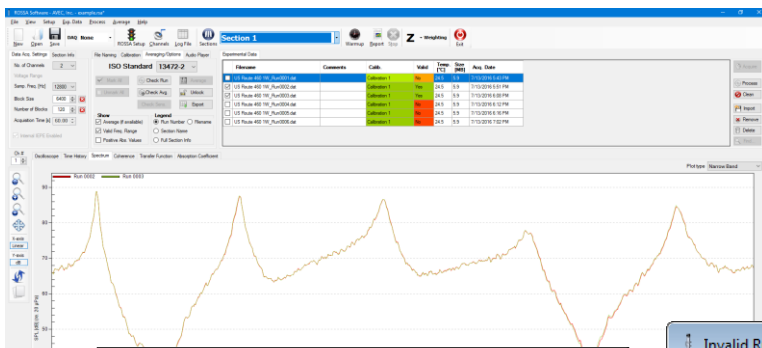
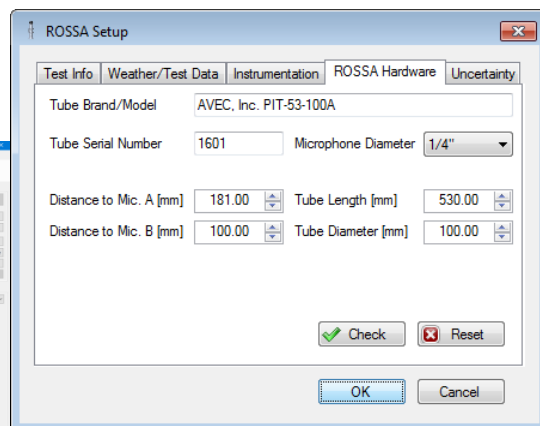
- **Optional items include:**

- USB remote for easy software control.
- GPS module (to easily log test location).



\*GRAS and National Instruments are registered trademarks of GRAS and National Instruments

- **AVEC's ROSSA Software** main features include:
  - Intuitive user interface optimized for testing multiple road sections.
  - Processing and analysis according to latest ISO Standard.
  - Guided and automated calibration and testing procedures.
  - Instantaneous feedback about validity of calibration and measurements.
  - Data and calibration values are easily managed for each test location.
  - Automated report generation (Microsoft Word®).
  - Figures and results can be easily exported (Excel®, Word®, etc.).
  - Perpetual license (no need for annual renewal).
- Other software features include:
  - Data acquisition, processing, analysis, and report using same software.
  - Automated file naming facilitates data acquisition during test.
  - Most settings can be modified for research purposes and validated based on ISO standard requirements.
  - Automated uncertainty estimation.



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## Other Options and Services

- Besides the complete turn-key solution, AVEC offers:
  - Individual ROSSA components (i.e. to upgrade an existing system),
  - Software integration with customer's existing hardware,
  - System rental/lease (hardware and/or software), and
  - ROSSA measurement services.
- Please contact us with your requirements and we will provide you with more information on the different options available.

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