StrainSmart® 9000 Data Acquisition Software

StrainSmart® 9000 software is a ready-to-use, Windows®-based software package for acquiring, reducing, presenting, and storing measurement data from strain gages, strain-gage-based transducers, thermocouples, potentiometers, and piezoelectric sensors. The software is designed to function seamlessly with the Micro-Measurements System 9000.
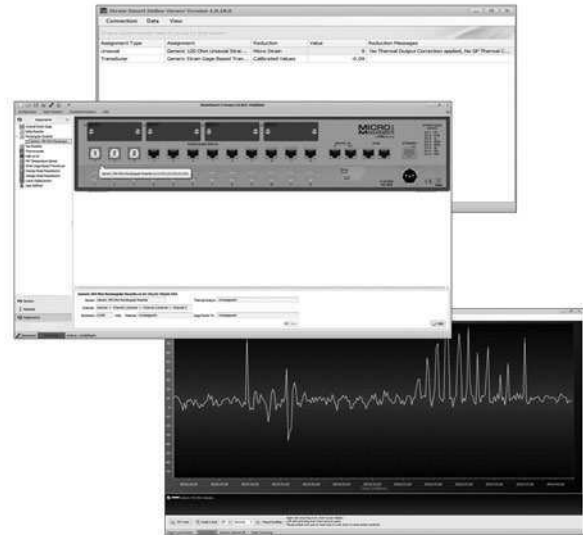

DESCRIPTION

StrainSmart® 9000 software makes test setup fast and easy for inputs such as strain gages, strain-gage-based transducers, thermocouples, high level, and piezoelectric sensors. StrainSmart® 9000 automatically outputs the results of the test data in engineering units.

Test setups and measurement data can also be permanently stored for offline display and can be exported for use in databases, word processors, spreadsheets or other third-party software. StrainSmart® 9000 has the capability to reduce data in both the time and frequency domains.

Thermal output, temperature coefficient of gage factor, and transverse sensitivity of strain gages, as well as nonlinearity errors inherent in the Wheatstone bridge can be corrected by StrainSmart® 9000 software automatically. Rosette data from delta, rectangular, and tee rosettes can be reduced to principal strains and stresses, as well as the equivalent stresses for common failure mode criteria. Fully reduced and corrected measurement data can be monitored locally or remotely.

The primary factors affecting strain gage and instrument performance are incorporated into our extensive selection of tech notes, application notes, instruction bulletins, and other technical publications that are recognized and used as the authoritative references for strain gage measurement by practitioners throughout the world. StrainSmart® 9000 software automatically applies the techniques and corrections covered by these publications to your data.

FEATURES

- Channel settings performed automatically from sensor properties
- Post processing data filters
- Pictorial representation of channel assignments – reduces potential connection errors
- Ability to modify Open Sessions (data recording options) through direct access toolbar
- Bridge excitation can be disabled for a complete scan session for noise checking
- "Verify" tool to perform pre-arm checks to confirm setup has been successfully completed
- Fast data display and export – orders of magnitude faster than previous StrainSmart®
- Data can be exported to multiple files automatically for large datasets
- User-defined assignments
- Remote online data viewer

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