The GenView developed by Power Grid Innovations is a powerful data acquisition system built up on National Instruments’ virtual instrument technology with specially-made signal conditioning hardware for electric power industry and utilities. The most powerful and key component of the system is the powerful software: a suite of advanced user written programs developed for electrical utility applications such as generator transient performance evaluation, equipment bench testing, and advanced power quality analysis.

The GenView software offers an in-built user interface that allows the user to record test signals (Voltage, Current, and Frequency etc) for further analysis, while viewing the live signals in real-time. The recording of the signals can also be triggered automatically by user-defined events for capturing abnormal operating conditions of the equipment/system under test.

Our measurement tool is widely used for conventional generator and renewable energy plant testing and model validations.

The GenView hardware is based on National Instruments’ USB DAQ product, which allows the acquisition of multiple channels of data at 16-bit resolution up to 400 kHz.

The Standard version of GenView includes real-time recording, measurement playback, report generation whereas the Premium version comes with all features of Standard plus remote control, online model validation, signal generator module.
Software Features

- Continuous hard disk recording for long duration
- Online monitoring of waveform, calculated powers, RMS values, phase angle, Frequency, etc.
- Instantaneous zoom options for all waveforms
- Easy setup of channels setting with custom options for input/output ratio, offset and labels
- Online harmonics analysis for different channels
- Playback and analysis of recorded waveforms with extensive analytical tools
- Export calculated quantities to a Excel spreadsheet for plotting or further analysis
- Records measurements data in different format (TDMS, EXCEL, CSV and COMTRADE)
- Export waveforms as image
- Connectivity capability to model validation software by PGI (External software needs to be installed)
- Upload measurements data on secure cloud drive
- Remote monitoring and control
- Capable to be linked with online model validation software by PGI
- Transfer Data via Email
- Custom signal generator for different test applications

Hardware Features

- National Instruments Data Acquisition Card
- Voltage Measurements upto 600 V
- Fast AC/DC Current Probes, upto 100 A RMS
- 16 Analog-to-Digital inputs (ADC Channels) with 16 bits resolutions, upto 400 kS/s sampling Rate
- 2 Digital to Analog Output (DAC Channels) with 16 bits resolutions, upto 250 kS/s sampling rate
- Closed loop voltage transducer with excellent accuracy and high bandwidth
- Isolating Amplifier for Rejecting noises, harmonics and ground effects
- Anti-aliasing filters to avoid aliasing signals
- Protection circuit to avoid any damage to other devices
- BNC connection and easy cabling
- USB Data Transfer

Applications

- Generator Testing for Model Development or Performance Evaluation
- Renewable Energy Model Validation
- Advanced Power Quality Monitoring and Analysis
- Power System Troubleshooting
- IEC Compliant Voltage Flicker Measurement and Analysis

Website: www.powergridinnovations.com
Email: info@powergridinnovations.com