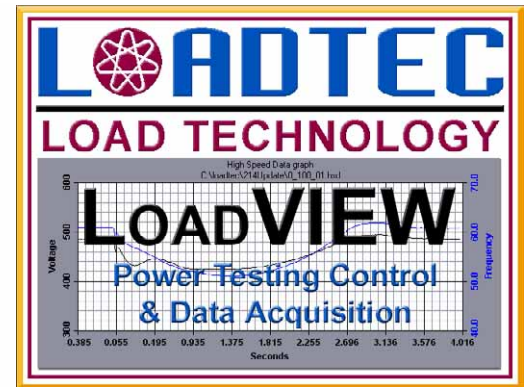


# LOADVIEW®

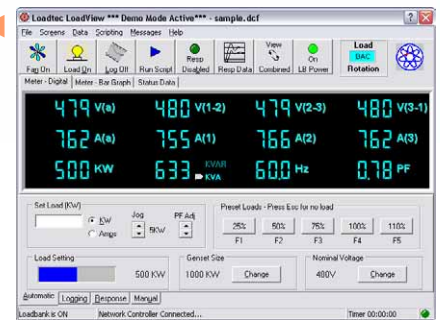
## Load Bank Control Software

BRINGING FULL LOAD BANK CONTROL & DATA ACQUISITION TO THE POWER OF THE WINDOWS® OPERATING SYSTEM



### COMPLETE SYSTEM CONTROL: ALL OIP FUNCTIONS PLUS MORE

- ▶ Fan Start / Stop: Single Button Control
- ▶ Automatic Fan Voltage Selection: Motor automatically configured for voltage
- ▶ Automatic Fan Rotation Selection: Fan always starts in the correct direction
- ▶ Load Select by Entering kW value or Amperage value
- ▶ Automatic Step Value Adjustment based on applied voltage
- ▶ (5) Assignable Load Select Percentage Buttons
- ▶ Step Jog: Assign value for one button load increase or decrease
- ▶ Manual Load Step Override: Select load steps directly
- ▶ Status of all Alarm and Operating Parameters

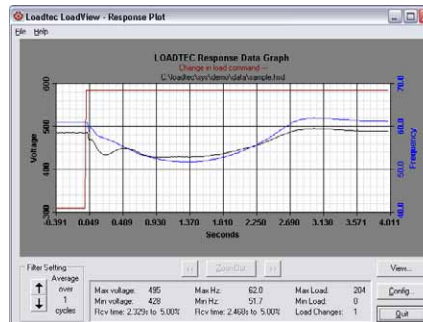


### FULL METERING

- ▶ Voltage:  $V_{AVG}$ ,  $V_{L1-2}$ ,  $V_{L2-3}$ ,  $V_{L3-1}$
- ▶ Amperage:  $A_{AVG}$ ,  $A_{L1}$ ,  $A_{L2}$ ,  $A_{L3}$
- ▶ Frequency: 45-440Hz.
- ▶ Kilowatt: Average
- ▶ Kilovars: Average
- ▶ KVA: Average
- ▶ P. F.: 0.50Lag-1.00-0.50 Lead
- ▶ Rotation: ABC,BAC
- ▶ Accuracy:  $\pm 0.5\%$ ,  $\pm 1c$
- ▶ All values are true R.M.S.
- ▶ Display Numerically or Bar Graph
- ▶ Bar Graph with Range Colors
- ▶ Metering automatically rescaled
- ▶ Calibration routine
- ▶ High Speed Sampling Rate: 8KHz
- ▶ Metering Accurate past 3<sup>rd</sup> Harmonic
- ▶ Screen Refresh >3x / Second
- ▶ Sums connected units when networked†

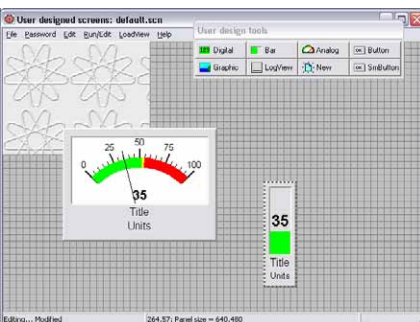
### DATA LOGGING

- ▶ Record the Test
- ▶ Metering Values Recorded
- ▶ (8) User-Definable Fields/Values
- ▶ Records all Values Automatically
- ▶ Select Values to Print after test
- ▶ Different Values for different reports
- ▶ Set Record interval: 1sec – 999min
- ▶ Configurable Report Generator
- ▶ Export Data to Excel®



### HIGH SPEED RESPONSE(HSR)†

- ▶ Captures the source response
- ▶ High Speed Sampling: 8KHz
- ▶ Pre-Event Data: up to 240Cycles
- ▶ Event Data: 120 Sec. @ 60Hz.
- ▶ Max. & Min. Voltage Values
- ▶ Max. & Min. Frequency Values
- ▶ Adjustable response % to Nominal
- ▶ Tabular Data Points Viewable
- ▶ Tabular Data Exportable



### USER SCREENS

- ▶ Develop Custom Control Screens
- ▶ All Functions & Data Assignable
- ▶ Meters: Numeric, Analog, Bar
- ▶ Buttons: Control, Indicator, Graphic
- ▶ Sounds: Custom sound elements
- ▶ Graphics: Custom BMP elements
- ▶ Colors: Custom color all elements
- ▶ Number of Screens unlimited
- ▶ Call new screen from any screen

### SCRIPTING

- ▶ Automate complete test
- ▶ All functions controllable
- ▶ Develop Script as profile: % Load
- ▶ Useable with single unit or network
- ▶ Use Script to assure full test
- ▶ Use Script to assure identical tests
- ▶ Set Data Logging to record test
- ▶ Set HSR to capture source response
- ▶ Save Data to File

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† Designates Optional Equipment or Feature Information

Subject to Change without Notice

**OPTION #1: LoadView - Computer Control, Data Logging & Scripting Software**

- SOFTWARE:** The software provides PC based control and monitoring of the Load Bank
- Requirements:**
- ▶ The software operates on a PC with Microsoft Windows® XP or newer operating system (computer and operating system not supplied)
  - ▶ Ethernet network interface(NIC) or RS-232 Serial port
- Features:**
- ▶ Full Load Bank control and Data Acquisition on a PC Computer
  - ▶ Fan Start / Stop: Single Button Control
  - ▶ Automatic Fan Voltage Selection: Motor automatically configured for voltage
  - ▶ Automatic Fan Rotation Selection: Fan always starts in the correct direction
  - ▶ Load Select by Entering kW value or Amperage value
  - ▶ Automatic Step Value Adjustment based on applied voltage
  - ▶ (5) Assignable Load Select Percentage Buttons
  - ▶ Step Jog: Assign value for one button load increase or decrease
  - ▶ Manual Load Step Override: Select load steps directly
  - ▶ Status of all Alarm and Operating Parameters
- Metering:**
- ▶ Metering is an integral part of the embedded controller
  - ▶ Dedicated processor for metering and data acquisition
  - ▶ Voltmeter: L1-2, L2-3, L3-1, Average
  - ▶ Ammeter: L1, L2, L3, Average
  - ▶ Frequency: 45-65Hz
  - ▶ Kilowatts, KVA, Kilovars, Power Factor, Rotation
  - ▶ Accuracy (nominal):  $\pm 0.5\%$  FS,  $\pm 1c$
  - ▶ 8kHz sampling, RMS values past the 3<sup>rd</sup> Harmonic
  - ▶ Calibration routine to match reference meters
  - ▶ All values are true R.M.S.
  - ▶ Display Numerically or Bar Graph with range color
  - ▶ Metering automatically rescaled
- Data Logging:**
- ▶ Record the Test
  - ▶ Metering Values Recorded
  - ▶ (8) User-Definable Fields/Values besides all other system values
  - ▶ Records all system values Automatically
  - ▶ Select Values to Print after test
  - ▶ Different Values for different reports
  - ▶ Set Record interval: 1sec – 999min
  - ▶ Configurable Report Generator
  - ▶ Export Data to Excel®
- User Screens:**
- ▶ Develop Custom Control Screens
  - ▶ All Functions & Data Assignable
  - ▶ Meters: Numeric, Analog, Bar
  - ▶ Buttons: Control, Indicator, Graphic
  - ▶ Sounds: Custom sound elements
  - ▶ Graphics: Custom BMP elements
  - ▶ Colors: Custom color all elements
  - ▶ Number of Screens unlimited
  - ▶ Call new screen from any screen
- Scripting:**
- ▶ Automate complete test
  - ▶ All functions controllable
  - ▶ Script as profile: % Load to test any generator rating by only changing generator value
  - ▶ Useable with single unit or network
  - ▶ Use Script to assure full test and repeatable tests
  - ▶ Set Data Logging to record test
  - ▶ Set HSR to capture source response (requires option #2)
  - ▶ Save Data to File

**OPTION #2: High Speed Response(HSR) Module for LoadView Software (requires Option #1)**

**GENERATOR RESPONSE:** An additional software module high speed data acquisition:

- ▶ Used to determine source response to block load events
- ▶ This will allow the high-speed acquisition of data
- ▶ Logging Rate of 8 KHz.: 1/cycle; Sampling rate: 133/cycle @ 60HZ
- ▶ Voltage and frequency to be logged with applied load KW
- ▶ Sampling period 60 cycles Pre-Event, 60 Seconds of Event
- ▶ The total high speed samples can be displayed and printed in a tabular format of a graph with each value displayed as amplitude vs. time
- ▶ Normal long period data acquisition can be run simultaneous with the high-speed acquisition
- ▶ The high-speed event acquisition can be automatically initiated with the call for a specific load level value or preset threshold value