



800 Series Power Analyzers



- Measures and analyzes power quality in commercial and industrial electrical power systems
- Specific power quality measurement in four programs: Energy and Harmonics, Disturbances, Check-Meter and Fast-Check
- True RMS readings for error-free testing
- 1 MB of memory stores data for in-depth analysis through PowerVision™ Software
- Rugged, compact design

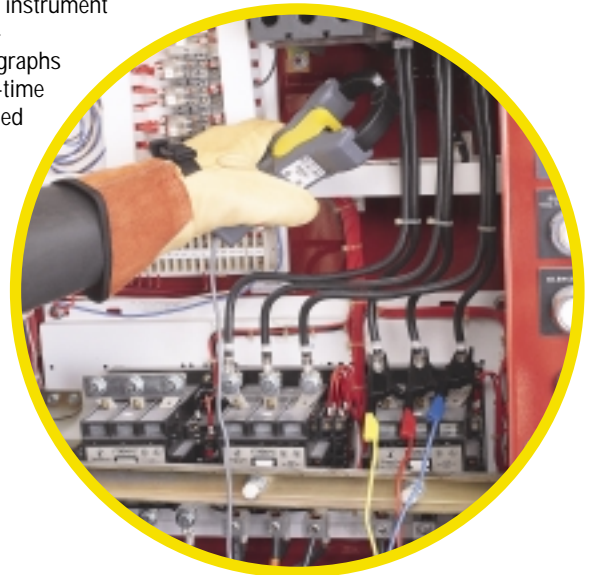


Power quality problems can be analyzed at one of three origins – supply, internal distribution and internal load.

The IDEAL Power Analyzer. The most versatile and easy-to-use power quality test instrument on the market. Four programs measure and analyze power quality on both single- and three-phase electrical systems. Instantaneous readouts including tables, bar graphs and even individual waveforms make job site data interpretation easy. With a real-time clock and 1 MB of memory, the Power Analyzer stores data that can be downloaded to a personal computer for in-depth analysis using PowerVision™ Software.

The Energy and Harmonics Program comes standard with the IDEAL Power Analyzer. Disturbances, Check-Meter and Fast-Check Programs are available separately. These programs allow the user to monitor additional facets of power quality with a single test instrument. The details of each program are discussed on the opposite page.

Everything a professional needs for monitoring and analysis in a single unit. Rugged, versatile and loaded with features including computer compatibility. There have always been test instruments that help make the job easier, but the IDEAL Power Analyzer has taken power quality analysis to a new level.



Features

- Single- or three-phase measurements
- True RMS
- Data logging (1MB memory)
- Auto ranging
- Min/max/avg
- Energy and Harmonics Program
- PowerVision Software
- Optional programs:
 - Disturbances
 - Check-Meter
 - Fast-Check
- Lightweight, portable design
- Easy-to-use push-button operation
- Password protected on-screen setup
- 160 x 160 pixel LCD
- RS-232 interface
- Customized data collection
- Real-time clock
- Programmable trigger-points and start/stop time
- Auto display shutoff
- Rechargeable Ni-Cad battery
- Intelligent battery charging system

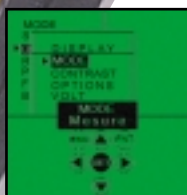
Power Measurements

- Kilowatts (kW)
- Voltamperes (VA)
- Inductive reactive power (kvarL)
- Capacitive reactive power (kvarC)
- Power factor (PF)
- Frequency (Hz)
- Kilowatt hours (kWh)
- Reactive power per hour (kvarhL, kvarhC)

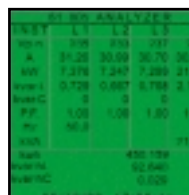
Harmonics Measurements

- Total harmonic distortion (%THD)
- Harmonic factorization to 51st harmonic

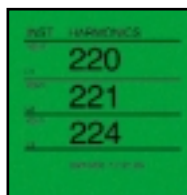
Power Analyzer Display Screens



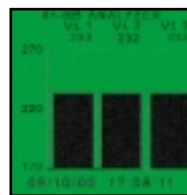
Program Setup



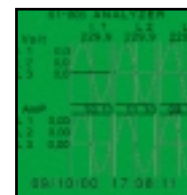
Table



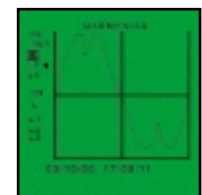
Exploded View



Bar Graph



Scope View



WaveForm View

Standard Equipment

61-805

61-806

- Backlight
- Neutral current measurements
- Auto-detect clamps
- Optional FIFO memory



Description	Cat. No.
Power Quality Analyzer – Standard model with 1000AAC clamp adapters (3), test leads with alligator clips (4), power supply/RS-232 interface and cables, PowerVision™ analysis software and protective carrying case	61-805
Power Quality Analyzer – Standard model with 200/2000AC clamp adapters (3), test leads with alligator clips (4), power supply/RS-232 interface and cables, PowerVision™ analysis software and protective carrying case	61-805-2K
Power Quality Analyzer – Neutral current measurement capability, auto-detect clamps, optional FIFO memory and backlight with 1000/AAC clamp adapters (3), test leads with alligator clips (4), power supply/RS-232 interface and cables, PowerVision™ analysis software and protective carrying case	61-806
Power Quality Analyzer – Neutral current measurement capability, auto-detect clamps, optional FIFO memory and backlight with 1000/AAC clamp adapters (3), 50/AAC clamp adapter (1), test leads with alligator clips (4), power supply/RS-232 interface and cables, PowerVision™ analysis software and protective carrying case	61-807

Power Analyzer Specifications	61-805 & 61-806	
	Range & Resolution	Accuracy
AC Voltage	20 to 500 V (phase neutral)	.05%
	20 to 866 V (phase-phase)	.05%
AC Current	10 to 1000 A (with supplied clamp adapters)	1.0%
AC Power	866 kW (with supplied clamp adapters)	1.0%
Reactive Power	866 kW (with supplied clamp adapters)	1.0%
Power Factor	0.5 to 1.0	1.0%

Power Analyzer Programs

Extend capabilities of 800 Series Power Analyzer. Up to four programs loaded on analyzer.

61-475*
61-816**

Check-Meter Program

- Monitors performance of in-line energy meters
- Stores data and provides comparison against mechanical or electrical meters
- Monitors key power and energy measurements



61-476*
61-817**

Fast-Check Program

- Captures transient waveforms caused by motor start-ups
- Monitors key power and energy measurements



61-474*
61-815**

Disturbances Program

- Tracks sags, swells and transients
- Programmable trigger points
- Captures individual waveforms for analysis



* for use with 61-805

** for use with 61-806/807

Accessories



C-1000
Carrying Case

PS-351*
PS-352**
RS-232 Interface/
Power Supply with cables



61-453*
61-810**
200/2000AAC
Clamp Adapter
(set of 3)



61-454*
61-811**
1000AAC Clamp Adapter
(set of 3)



TL-805
Voltage Leads with
Alligator Clips

61-455*
61-812**
500AAC Clamp Adapter
(set of 3)



61-456*
61-814**
5AAC Clamp Adapter



61-813**
100AAC Clamp
Adapter



Description	Cat. No.
200/2000AAC clamp adapters for 61-805 (set of 3)	61-453
1000AAC clamp adapters for 61-805 (set of 3)	61-454
500AAC clamp adapters for 61-805 (set of 3)	61-455
5AAC clamp adapters for 61-805 (1)	61-456
Disturbances program for 61-805	61-474
Check-Meter for 61-805)	61-475
Fasf-Check Program for 61-805	61-476
200/2000AAC clamp adapters for 61-806 (set of 3)	61-810
1000AAC clamp adapters for 61-806 (set of 3)	61-811
500AAC clamp adapters for 61-806 (set of 3)	61-812
100AAC clamp adapters for 61-806 (1)	61-813
5AAC clamp adapters for 61-806 (1)	61-814
Disturbances program for 61-806	61-815
Check-Meter for 61-806	61-816
Fast-Check Program for 61-806	61-817

* for use with 61-805
** for use with 61-806/807