The Most Comprehensive Portable PQA on The Market

Catch Power Quality Problems on the Fly...

Monitor for:
✓ Inrush Current
✓ Voltage Swells
✓ Voltage Dips
✓ Transient Overvoltage
✓ Interruptions

Measure and Record:
✓ Power and Power Factor
✓ Active/Reactive Energy
✓ Demand
✓ Load Changes (with graph display!)
✓ Voltage and Current

...Before They Catch You!
For checking the wiring map and vectors in a single window

Use the wiring map, vector map and data monitor to check for proper wiring before taking measurements – don’t miss out on important power data just because of minor wiring mistakes!

A quick glance at the correct vector map will show you if your wiring is correct

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Feature 1: Vector Multimeter

Feature 2: QuickSet

Line frequency: Auto
Measurement Interval: Auto
Nominal Voltage: Auto
Event thresholds against nominal voltage:
- Swell: 110%
- Dip: 90%
- Interruption: 10%
- Transient: ON

Let QuickSet help you take care of all the time-consuming setup procedures. All you need to do is select your circuit, clamp sensor and range, and then let QuickSet do the rest of the work for you.

Testing Parameters Automatically Defined by QuickSet
Redefine Thresholds Easily with Intuitive Key Panel

Feature 3: Power & Power Quality

Get a crystal clear picture of the voltage fluctuation on all channels

Measure all the necessary power parameters simultaneously

Check for sudden inrush during motor startup and diagnose breaker trips due to over current all on the same measurement interface. View RMS data for every half cycle over a 30 second period on a large graph display

All items are recorded as events so that a quick understanding can be obtained just by viewing the waveform

Power & Energy:
- Voltage
- Current
- Frequency
- Power and Power Factor
- Voltage Fluctuation (dips and swells)

Demand
Load Changes
THD(voltage)
Active/Reactive Energy

Active/Reactive Energy

Power Quality:
- Inrush Current
- Voltage Swells
- Voltage Dips
- Transient
- Overvoltage
- Interruptions

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Power Quality:
- Inrush Current
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- Overvoltage
- Interruptions
Setting Up is as Easy as 1-2-3

1. Select your wiring

2. Select your clamp sensor

3. QuickSet

WIRING

Use QuickSet to automatically set the default values for line frequency, nominal voltage, interval, and power quality thresholds for event detection.

Use the correct vector diagram to check that your wiring is right before measuring, particularly useful when measuring 3-Phase circuits.

QuickSet allows you to automatically set the default values for line frequency, nominal voltage, interval, and power quality thresholds for event detection.

Select from 5 Types of Color-coded Input Terminal Labels to Suit Your Application Region

<table>
<thead>
<tr>
<th>Type</th>
<th>N</th>
<th>U1</th>
<th>U2</th>
<th>U3</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black</td>
<td>Red</td>
<td>Yellow</td>
<td>Blue</td>
<td>Japan, U.K.</td>
</tr>
<tr>
<td>2</td>
<td>Blue</td>
<td>Orange</td>
<td>Black</td>
<td>Gray</td>
<td>EU (new)</td>
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<td>Yellow</td>
<td>Green</td>
<td>Red</td>
<td>China</td>
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<tr>
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<td>White</td>
<td>Black</td>
<td>Red</td>
<td>Blue</td>
<td>N. America</td>
</tr>
</tbody>
</table>

Make detailed settings on how and when to measure, and customize your level of event detection as desired.

Toggle between screens to customize your measurement settings

Important Features:
- Pull Strap Through for Ultimate Portability
- AC Adapter for Quick Recharge or Long Recordings
- USB Port for PC Compatibility
- Power Switch
- Convenient Stand for Hands-free Viewing
- Rugged and Durable Casing to withstand even the toughest environments and uses

Monitor Trends while Recording

WAVEFORM

Obtain real-time moving data on voltage, current, power, and more!

One-touch switching between graph and numerical data

Monitor Trends while Recording

RMS, Phase Angle, and Lead and Lag

Toggle between screens using VIEW key for instantaneous power data

Select your clamp sensor

Use QuickSet to automatically set the default values for line frequency, nominal voltage, interval, and power quality thresholds for event detection.

Use the correct vector diagram to check that your wiring is right before measuring, particularly useful when measuring 3-Phase circuits.

Select your wiring

QuickSet

SYSTEM

Toggle between screens to customize your measurement settings

REC & EVENT

Make detailed settings on how and when to measure, and customize your level of event detection as desired.

Toggle between screens using VIEW key for instantaneous power data

Full-color waveforms and RMS readings

Obtain real-time moving data on voltage, current, power, and more!

One-touch switching between graph and numerical data

RMS, Phase Angle, and Lead and Lag

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Monitor Trends while Recording
Record and Inspect (even while measuring)

**ENERGY**

- **RMS**
  - Toggle between trend graphs for a complete analysis of the power situation
  - Consumed & Regenerated Active Power
  - Lag and Lead of Reactive Power
- **DIP/SWELL**
  - Get a detailed picture during voltage anomalies - fluctuation range for all 3 channels are displayed
- **DEMAND**
  - Demand Graph and maximum and average values displayed in one window

**DMM**

- Harmonic waveforms of voltage, current and active power to the 50th order
- Inrush current fluctuations are captured in RMS at a fast 10ms sampling rate and displayed across a 30-second window
- Record up to 20 graphs in internal memory
- “I” marks an Inrush Event

**IDENTIFY POWER QUALITY PROBLEMS**

- **WAVEFORM**
  - Switch between voltage and current graphs, and zoom in on the time axis at the touch of a button
  - Toggle between events for a complete picture of the power anomaly
  - Display events AND their waveforms at the same time

- **HARMONICS**
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**Feature 4:** Bundled PC Application Software

- **Two Integrated Programs for Data Download and Viewing:** Standard USB connection lets you download data at a snap, and immediately view your measurements with the DataViewer.

Open downloaded recordings with DataViewer to manage and process your captured power data on your PC.

- **Feature 5:** Compact Design Makes for Long Battery Life

  - **Standard 3197 Package Fulfills All the Requirements for Checking Voltage Anomalies**
    - Use on a Single Recharge.
    - Non-volatile Ni-MH rechargeable battery pack keeps important measurement data in memory even after power is turned off.

**Measurement Specifications**

- **RMS Voltage and Current**
  - Voltage Accuracy: ±0.3% rdg. ±0.2%/f.s.
  - Current Accuracy: ±0.3% rdg. ±0.2%/f.s. + Clamp sensor accuracy

- **Voltage (1/2) RMS Measurement**
  - True RMS (one cycle calculation refreshed every half cycle)
  - Accuracy: ±0.3% rdg. ±0.2%/f.s.

- **Current (1/2) RMS Measurement**
  - True RMS (half-cycle calculation, half-cycle voltage synchronized)
  - Accuracy: ±0.3% rdg. ±0.2%/f.s. + Clamp sensor accuracy

- **Frequency**
  - Effective Measurement range: 45.00 to 66.00 Hz
  - Accuracy: ±0.01 Hz ±0.1 dgt. (when input is at least 10% of range)

- **Active Power Accuracy**
  - ±1 dgt. of calculation from each measurement value

- **Apparent Power Accuracy**
  - ±1 dgt. of calculation from each measurement value

- **Power Factor and Displacement Power Factor Accuracy**
  - ±1 dgt. of calculation from each measurement value
  - Power Factor accuracy: ±0.5% rdg. ±0.2%/f.s.
  - Displacement Power Factor accuracy: ±1.0% rdg. ±0.2%/f.s.

- **Active Power Factor (for consumption and generation)**
  - ±0.3% rdg. ±0.2% f.s. + clamp-on sensor accuracy (P.F.=1)

- **Reactive Power Accuracy**
  - ±1 dgt. of calculation from each measurement value

- **Effect of Power Factor**
  - ±1.0% rdg. (50 /60Hz, P.F.=0.5)

- **Power Factor and Displacement Power Factor Accuracy**
  - Lead/Behind Phase: ±0.5% rdg. ±0.3% f.s.
  - Lead/Behind Phase (leading phase indicated): ±1.0% rdg. ±0.3% f.s.

- **Active or Reactive Energy Consumption**
  - ±1 dgt. applied to active or reactive power measurement accuracy

- **Demand**
  - Selectable between active or reactive power
  - ±1 dgt. applied to active or reactive power measurement accuracy

**Harmonic and Power Quality**

- **Accuracy**
  - Harmonic Voltage, Current, and Power Factor Accuracy
  - Harmonic Voltage: ±0.1% rdg. ±0.2%/f.s.
  - Harmonic Current: ±0.3% rdg. ±0.5%/f.s.
  - Power Factor accuracy: ±0.5% ±0.2%/f.s.

- **Measurement Line Frequency**
  - ±1 dgt. of calculation from each measurement value

- **Measurement Line Frequency**
  - Auto-select (50/60 Hz)

- **Maximum Allowable Input Voltage**
  - Voltage input terminal: 780 V AC (1103 Vpeak)

- **Maximum Rated Voltage to Ground**
  - Voltage input terminal: CAT III 600 V AC, CAT IV 300 V AC (50/60 Hz)

- **Measurement Method**
  - Simultaneous digital sampling of voltage and current (sampling frequency: 10.24 kHz per channel)

- **Voltage Measurement Range**
  - 600.0V (Crest factor 2 or less)

- **Current Measurement Range**
  - 60.00kA/120.0kA/180.0kA

- **Power Measurement Range**
  - 3.000MW/6.000MW/9.000MW

- **Event Detection**
  - Voltage Swells (Rise), Voltage Dips (Drop), Interruptions
  - Inrush Current
  - Transient Overvoltage
  - Timer Detection
  - Manual Detection

- **Event Recording Lengths**
  - Waveform: 20s before detection + 200ms upon detection + 200ms after detection

- **Recordable Events**
  - Maximum Number of Recordable Events: 50 event waveforms, 20 event voltage fluctuation graphs, 1 inrush current graph, 1000 event counts

**Input Specifications**

- **Battery**
  - Non-volatile Ni-MH rechargeable battery pack
  - Standard 3197 Package Fulfills All the Requirements for Checking Voltage Anomalies

- **Software**
  - Two Integrated Programs for Data Download and Viewing

- **Convenient Data Transfer**
  - Standard USB connection lets you download data at a snap, and immediately view your measurements with the DataViewer.

- **Mobility, Portability Plus**
  - Standard 3197 Package Fulfills All the Requirements for Checking Voltage Anomalies

- **Feature 5:** Compact Design Makes for Long Battery Life

  - **6 Hours of Continuous Use on a Single Recharge.**
  - Non-volatile Ni-MH rechargeable battery pack keeps important measurement data in memory even after power is turned off.

**Event Detection**

- **Voltage Swells (Rise), Voltage Dips (Drop), Interruptions**
  - RMS value detected using voltage (1/2) measured every half cycle

- **Inrush Current**
  - RMS value detected using current (1/2) every half cycle

- **Transient Overvoltage**
  - Detection Range: 50 Vrms (±70.7 Vpeak equiv.) or more, 10 to 100 kHz

- **Timer Detection**
  - Detect events at preset intervals selectable from OFF, 1, 5, 15 or 30 minutes; 1 or 2 hours; or 1 day

- **Manual Detection**
  - Detect events when keys are pressed

- **Thresholds**
  - Set to OFF or to specified value, except for detection of transient overvoltages. (Waveform recording not available for transients.)

- **Event Recording Lengths**
  - Waveform: 20s before detection + 200ms upon detection + 200ms after detection

- **Inrush current graph**
  - Voltage fluctuation graph

- **Maximum Number of Recordable Events**
  - 50 event waveforms, 20 event voltage fluctuation graphs, 1 inrush current graph, 1000 event counts

- **Input Specifications**

- **Battery**
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### BASIC SPECIFICATIONS

- **Display**: 4.7-inch color STN LCD
- **Display languages**: English, Japanese or Chinese (Simplified)
- **Display refresh rate**: Approx. once per second
- **Clock functions**: Auto calendar, auto leap year, 24-hour format
- **Real-Time Clock accuracy**: Within 13 seconds/month
- **Internal Memory Capacity**: 4MB
- **Maximum recording time**: 125 Days
- **Interval Settings**: AUTO, 1, 5, 15 and 30 min., and 1 hour (AUTO sequentially selects 1, 2, 10, 30 seconds, 1, 5, 15 and 30 min., and 1 hour automatically)
- **Demand period**: 15 min., 30 min., and 1 hour
- **Recordable Items**: All parameters (incl. max/min/average values)

### INTERFACE SPECIFICATIONS

- **Interface**: USB 2.0 (Full Speed)
- **Connection destination**: Computer operating on Windows 2000/XP

### CLAMP ON SENSOR SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>9694</th>
<th>9660</th>
<th>9661</th>
<th>9669</th>
<th>9667</th>
<th>9695-02</th>
<th>9695-03</th>
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</thead>
<tbody>
<tr>
<td>Measurable conductor diameter</td>
<td>CE</td>
<td>CAT III 300V</td>
<td>CAT III 300V</td>
<td>CAT III 600V</td>
<td>CAT III 600V</td>
<td>CAT III 1000V</td>
<td>CAT III 300V</td>
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<tr>
<td>Primary current rating</td>
<td>AC 5A</td>
<td>AC 100A</td>
<td>AC 500A</td>
<td>AC 50A</td>
<td>AC 50A</td>
<td>AC 50A</td>
<td>AC 10A</td>
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<tr>
<td>Output voltage</td>
<td>AC 10mA</td>
<td>AC 1mA</td>
<td>AC 1mA</td>
<td>AC 0.5mA</td>
<td>AC 1mA</td>
<td>AC 1mA</td>
<td>AC 1mA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.3%rdg.+0.02%fs.</td>
<td>±0.3%rdg.+0.02%fs.</td>
<td>±0.3%rdg.+0.01%fs.</td>
<td>±0.1%rdg.+0.01%fs.</td>
<td>±0.2%rdg.+0.1%fs.</td>
<td>±0.3%rdg.+0.02%fs.</td>
<td>±0.3%rdg.+0.02%fs.</td>
</tr>
<tr>
<td>Maximum allowable input (45 to 66 Hz)</td>
<td>within ±3°</td>
<td>within ±1°</td>
<td>within ±0.5°</td>
<td>within ±1°</td>
<td>within ±1°</td>
<td>within ±1°</td>
<td>within ±1°</td>
</tr>
<tr>
<td>Frequency characteristic (accleration deviation)</td>
<td>within ±1.0% at 40Hz to 5kHz (9696: within ±2.0%)</td>
<td>±3dB at 10Hz to 20kHz</td>
<td>within ±1.0% at 40Hz to 5kHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. rated voltage to earth (insulated conductor)</td>
<td>300Vrms</td>
<td>300Vrms</td>
<td>600Vrms</td>
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<td>1000Vrms</td>
<td>300Vrms</td>
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</tr>
<tr>
<td>Maximum allowable input (45 to 66 Hz)</td>
<td>50A continuous</td>
<td>130A continuous</td>
<td>550A continuous</td>
<td>1000A continuous</td>
<td>1000A continuous</td>
<td>60A continuous</td>
<td>130A continuous</td>
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<tr>
<td>Dimensions and weight</td>
<td>466x158x212mm, 23g</td>
<td>466x158x212mm, 23g</td>
<td>778x151x412mm, 30g</td>
<td>100Wx188x622mm, 50g</td>
<td>71Wx58x190mm, 50g</td>
<td></td>
<td></td>
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<tr>
<td>Requirements</td>
<td>3m cord</td>
<td>3m cord</td>
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### COMPLETE LIST OF OPTIONS

- **9660**: CLAMP ON SENSOR (100A)
- **9661**: FLEXIBLE CLAMP ON SENSOR (5000A)
- **9669**: CLAMP ON SENSOR (1000A)
- **9694**: CLAMP ON SENSOR (5A)
- **9695-02**: CLAMP ON SENSOR (50A)
- **9695-03**: CLAMP ON SENSOR (100A)
- **9219**: CONNECTION CORD (for the 9695-02/9695-03)
- **9675**: CLAMP ON SENSOR (10A)
- **9438-05**: VOLTAGE CORD (bundled with the standard 3197)
- **9418-15**: AC ADAPTER (bundled with the standard 3197)
- **9459**: BATTERY PACK (bundled with the standard 3197)
- **9624-50**: PQ-HiVIEW Pro PC Application Software (available Fall 2006)

### 3197 STANDARD BUNDLE CONFIGURATION

Includes all the equipment you need to measure voltage:

- For current or power measurements, please select from our wide assortment of clamp on sensors:
  - 9438-05 VOLTAGE CORD (3m cord length), 9459 BATTERY PACK, 9418-15 AC ADAPTER, USB Cable, Input Terminal Labels, Input Cord Labels, 3197 Applications PC Program (CD-ROM), strap, carrying case, measurement guide, instruction manual

### ENVIRONMENTAL AND SAFETY-RELATED SPECIFICATIONS

- **Operating environment**: Indoors, up to 2000 m (6562-ft.) ASL
- **Temperature and humidity**: Storage -40° to 60°C (4°F to 140°F), 80% RH or less (non-condensing)
- **Temperature and humidity**: Operation 0 to 40°C (32° to 104°F), 80% RH or less (non-condensing)
- **Applicable standards**: Safety
- **Power source**: Model 9418-15 AC Adapter or Model 9459 Battery Pack (Maximum rated power: 23 VA (with AC adapter))

### SUGGESTED OPTIONS for POWER MEASUREMENTS

- **3P4W Circuit testing of motors and breakers**: 3197 Standard Package + 9661 (500A Sensor)×3
- **3P4W Circuit testing of external CTs**: 3197 Standard Package + 9694 (5A Sensor)×3
- **3P Leakage testing**: 3197 Standard Package + 9675 (10A Sensor)×3

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1529 Santiago Ridge Way
San Diego, CA 92154 USA.
Sales@SignalTestInc.com