PDA 1252
For Portable Power Analysis
Accu-Measure™ Technology

- Comprehensive Power Quality Analysis
- Circuit Analyzer Functions
- Load Flow and Historical Trending Capability
- Watertight Outdoor Enclosure
- Advanced Software Analysis Tools Included
- Optional Artificial Intelligence Reporting Package
- Easy to Use and Operate
- Touch Screen Graphical Display
- Based on the Nexus® 1252 Platform

Description
The PDA 1252 is a portable power quality analyzer designed to be used with outdoor ready connections. The unit is ideal for load surveys, monitoring transformer banks, indoor and outdoor electrical monitoring and power quality analysis. The PDA 1252 is mounted in its own watertight carrying case and uses watertight connectors to connect voltage and current leads.

Power Quality Recording Capability
The PDA 1252 is a comprehensive Energy and Power Quality Analyzer. It measures every aspect of power and provides extensive tools for recording trends and power quality events. Recording capabilities include:
- Voltage Surges and Sags
- IEC 61004-15 Flicker Analysis
- Current Fault Signatures
- Harmonics / Interharmonics
- Graphical Waveforms Recorded
- Transient Events on a Cycle by Cycle Basis
- View Data Using Top Rated Communicator EXT Software
- Optional Artificial Intelligence Reporting of Power Quality Causes and Solutions

Historical Trending / Load Profiling
The analyzer has extensive on-board data-logging for any desired historical analysis. Monitor the following over any desired historical trending window:
- Voltages
- Current Distribution
- PF
- Watt/VAR/VA
- Frequency
- Energy Accumulated
- Log Both Instantaneous and Average Readings
- Programmable Trending Profiles
- Easy to Use and Set Up

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A Quantum Leap in Metering Technology

Superior Mechanical Design
The unit was designed using a watertight outdoor rated enclosure. All terminations are also watertight. This allows the analyzer to be used in harsh environments or outside the incoming utility feed to a building. The unit can be powered using line voltage or through a separate line cord.

Two Models

Low Voltage - PDA 1252-1A
This version of the unit offers a 1 Amp secondary input for low voltage applications. This allows the unit to work with up to 600 Volts phase to phase. There are 3 clamp-on probes available for 100 Amps, 1000 Amps and 3000 Amps primary circuits.

High Voltage – PDA 1252-5A
This version of the unit takes a direct 5 Amp input for use with test leads on existing high voltage installed current transformers or with 5 Amp rated probes. This allows the unit to be used as a circuit analyzer as well as a portable power quality monitor. When used as a circuit analyzer the PDA 1252 allows you to verify CT and PT connection wiring to meters and protective relaying equipment.

Power Line or Power Port Power Supply
The PDA 1252 is designed to be powered using two different methods. The first method allows the unit to be powered from a 208 - 480 VAC phase A–B voltage line connection. The unit also utilizes a wall plug for remotely powering the unit. The wall plug allows the unit to be used in conjunction with a UPS to remain powered during power outages.

Advanced Touch Screen Display
Touch screen display allows real-time data to be viewed easily. Stored logs and recordings are viewed via a simple RS232 port.
Advanced Analysis Software

The PDA 1252 comes equipped with the Industry’s top performing viewing and power quality reporting package, Communicator EXT. This program has the following features:

- Easy Program Configuration
- Real Time Data Viewing
- Phasor Analysis
- Extensive Harmonic Analysis
- Waveform Viewer with Zoom and Pan
- Historical Trending
- Direct Export to Microsoft Office Products

Electro Industries, in conjunction with Kreiss Johnson Technologies, the leader in power quality analysis software, introduces a quantum leap in power quality reporting technology, AiReports EXT.

This unequalled power quality software package not only provides a comprehensive report on the status of the equipment being monitored, but it also uses artificial intelligence to diagnose PQ events and provide the possible cause of the event. Accuracy is generally as high as 80%. Having this advanced analysis will cut down endless hours of engineering analysis.

Diagnose Problems Quickly with a Detailed Report

Accessory Items

Optional 1 Amp Model Accessories

- **MD304**, 100:1A clamp-on CT with 5ft Male Banana Leads (Range 10-100A, 600V Rating)
  - Includes leads

- **SR604**, 1000:1A, clamp-on CT with 5ft Male Banana Leads (Range 100-1000A, 600V Rating)
  - Includes leads

- **JM830**, 3000:1A clamp-on CT with 5ft Male Banana Leads (Range 1000-3000A, 600V Rating)
  - Includes leads

Optional 5 Amp Model Accessories

- **KBTP1**, Knife blade test plug with 3ft Male Banana Leads
  - For use with test switches

- **SR632**, Clamp-on CT, 1000/5A clamp-on CT with 5ft Male Banana Leads (Range 1000/2.5Amps, 600V Rating)
  - Includes leads
Specifications

Voltage Input
- 0 to 300 Volts L-N (plug powered)
- 0 to 600 Volts L-L (plug powered)
- 100 to 300 Volts AC L-N (line powered)
- 200 to 600 Volts AC L-L (line powered)
- 3 or Single Phase Power Systems

Power Supply
- Line Powered 200 to 600 Volts L-L
  (Must be powered using two phases of voltage)
- Wall Plug Powered 120/220 Volts AC

Current Inputs
- 1252-5A – 5 Amp Secondary Direct Wiring
  Max Energy and RMS Calculation Range
  (10 Amp Secondary)
  Max Waveform Recorder Range (40
  Amp Secondary)
  1252-1A – 1 Amp Secondary Direct wiring
  Max Energy and RMS Calculation Range
  (2 Amp Secondary)
  Max Waveform Recorder Range (8 Amp
  Secondary)

Burden
- Voltage (Line Powered) – 20 VA
- Voltage (Plug Powered) – 0.05VA
- Current – 0.05VA

Frequency
- 20 to 410Hz

Operating Temperature
- 0-50°C

Accuracy
- Voltage and Current: 0.15% of Reading
- Watts and Energy: 0.2% of Reading
- Freq: +/- .01 Hz
- %THD: +/- 1% of Full Scale

Construction
- NEMA 4 Rated Outdoor Enclosure

Compliance
- ANSI C12.20 (Class 0.2 Accuracy)
- IEC 62053-22 (Class 0.2 Accuracy)
- IEC 61000-4-15 (Flicker)

Ordering Specifications

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<th>Model</th>
<th>Current Input</th>
<th>Memory</th>
<th>Frequency</th>
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<tr>
<td>5 Amp</td>
<td>Advanced Memory</td>
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Included Accessories

- VLP1252: Voltage Lead Set
- ALP1252: Current Lead Set (QTY 4)
- COMEXT3.OC: Communication Software
- 9PINC: Straight DB9 RS232 Cable
- RC5589: 14” x 14” x 3” EIG Nylon Accessory Carrying Case with Shoulder Strap

Optional 1 Amp Model Accessories

- MD304, 100:1A clamp-on CT with 5ft Male Banana Leads (Range 10-100A), 600V Rating
- SR604, 1000:1A, clamp-on CT with 5ft Male Banana Leads (Range 100-1000A), 600V Rating
- JM830A, 3000:1A clamp-on CT with 5ft Male Banana Leads (Range 1000-3000A), 600V Rating

Optional 5Amp Model Accessories

- KBTP1, Knife blade test plug with 3ft Male Banana Leads
- SR632, Clamp-on CT, 1000/2.5Amps

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