

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

# Watertight Portable

# Power Quality Analyzer



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





# **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**

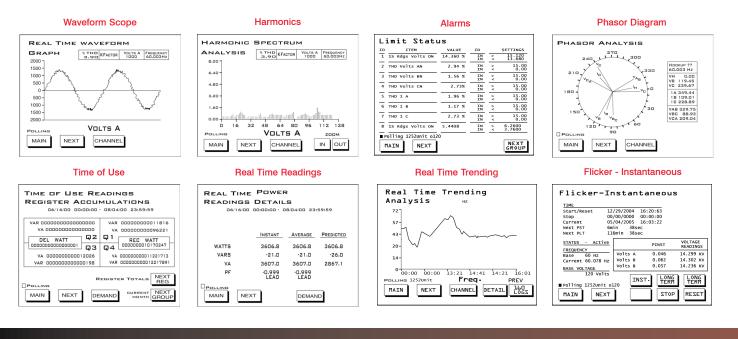
The PDA 1252 is designed to be powered using two different methods. The first method allows the unit to be powered from a 208 - 480 VAC phase A–B voltage line connection. The unit also utilizes a wall plug for remotely powering the unit. The wall plug allows the unit to be used in conjunction with a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

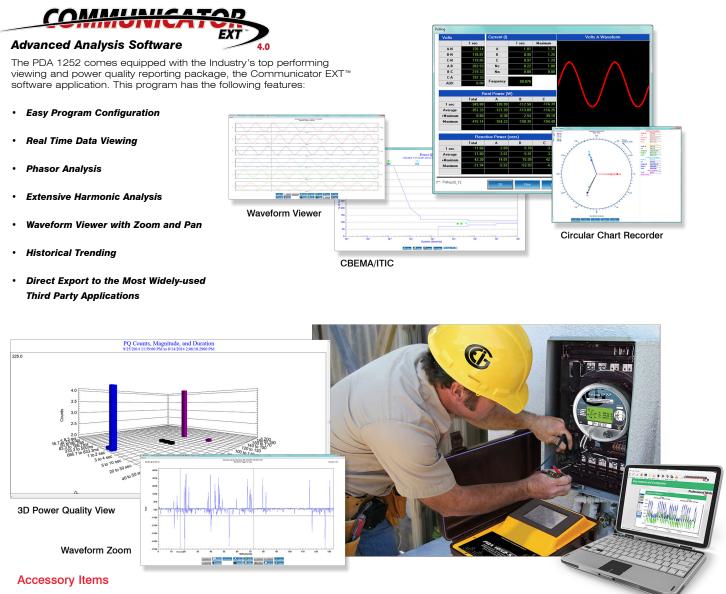




# **Advanced Touch Screen Display**

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

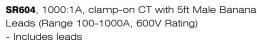




#### **Optional 1 Amp Model Accessories**



MD304, 100:1A clamp-on CT with 5ft Male Banana Leads (Range 10-100A, 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

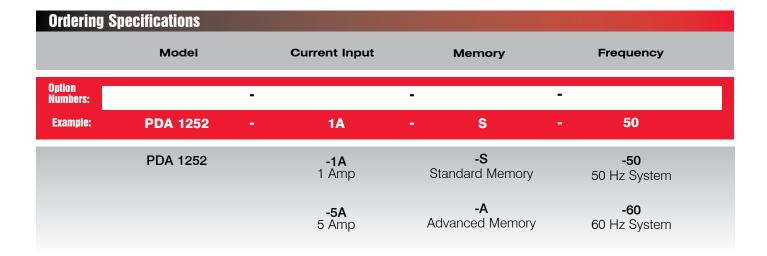
Voltage and Current: 0.15% of Reading Watts and Energy: 0.2% of Reading Freq: +/- .01 Hz %THD: +/- 1% of Full Scale

#### 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)



# **Accessory** Options

# **Included Accessories**

VLP1252:	Voltage Lead Set
ALP1252:	Current Lead Set (QTY 4)
COMEXT3.0C:	Communication Software
9PINC:	Straight DB9 RS232 Cable
RC5589:	14" x 14" x 3" EIG Nylon Accessory Carrying Case with Shoulder Strap

## **Optional Software**

COMEXT4P - Communicator EXT™ Software, Single License

## **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**

EI-7B4618G05, Knife blade test plug with 3ft Male Banana Leads

SR632, Clamp-on CT, 1000/2.5Amps



The Leader in Power Monitoring and Smart Grid Solutions

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