



# Advanced Test Equipment Rentals

www.atecorp.com 800-404-ATEC (2832)

Special product features



## POWER QUALITY ANALYZERS, METERS & LOGGERS

### Three-Phase Power Quality Analyzer

#### PowerPad® III Model 8336

**2GB of memory for trend data storage and additional memory for: up to 50 snapshots, 210 captured transients/inrush and 10,000 alarm events**



**Five voltage and four current input terminals**

#### SPECIFICATIONS

MODEL	8336
Input Terminals	5 voltage / 4 current
Inputs	4 voltage / 4 current
Voltage (TRMS AC+DC)	Phase-to-Phase: 0 to 2000 Phase-to-Neutral : 0 to 1000V
Voltage Ratio	up to 500kV
Current (TRMS AC+DC)	MN93: 500mA to 200A <sub>AC</sub> ; MN193: 0.005 to 100A <sub>AC</sub> SR193 Clamp: 1A to 1000A <sub>AC</sub> AmpFlex™ or MiniFlex™ Clamps: 100mA to 10000A <sub>AC</sub> MR193 Clamp: 1A to 1300A <sub>AC/DC</sub> SL261 Clamp: 50mA to 100A <sub>AC/DC</sub> Current Ratio: up to 60kV J93: 50 to 3500A <sub>AC</sub> , 50 to 5000A <sub>DC</sub>
Frequency (Hz)	40 to 70Hz
Distribution Systems	1P 2W, 1P 3W, 2P 2W, 2P 3W, 2P 4W, 3P 3W, 3P 4W, 3p 5W, Split-Phase 2W & 3W, 2 ½ Element & Aron meters
Power Values	W, VA, var, VAD, PF, DPF, cos φ, tan φ
Energy Values	Wh, varh, VAh, VADh
Harmonics	1 <sup>st</sup> to 50 <sup>th</sup> , Direction, Sequence; THD: 0 to 50, Phase
Transients	up to 210
Trend Mode	Records up to 41 variables as fast as once per second for one month depending on selected storage rate
Flicker	Pst & Pit
Inrush Mode	Yes, >10 min
Unbalance	Yes
Record Mode	Yes
Alarm Mode	40 types; 10,000 recorded
Waveform Mode	Calculated: AN (RMS, DC, CF, PK+/-) and FK
Peak	Yes
Phasor Display	Automatic
Data Storage	2GB card for trend + 4MB partitioned for snapshot, transients and alarms
Other Measurements	256 samples/cycle for trend recording
Display	Color ¼ VGA TFT screen (320 x 240) diagonal 148mm
Snapshots	50
Sampling Frequency	256 samples/cycle for trend recording
Electrical Safety	IEC 61010, 1000V CAT III / 600V CAT IV
Protection	IP53 - Non Operating
Languages	more than 26
Communication Interface	USB
Battery Life	10 hrs in non - Record Mode with display on; 25 hrs in Record Mode with display off
Power Supply	9.6V NiMH rechargeable battery pack (included) External AC supply: 110/230V <sub>AC</sub> ±10% (50/60Hz)
Dimensions / Weight	9.8 x 7.8 x 2.6" (240 x 180 x 55mm) / 4.3 lbs (1.95kg)



Non Operating

#### PRODUCT INCLUDES

##### 8336

Five black 10 ft voltage leads, five black alligator clips, twelve color-coded input ID markers, USB cable, NiMH battery, 110/240V power adapter with US power cord, large classic tool bag, soft carrying pouch, quick start user guide, and USB stick supplied with product user manual and DataView™ software.



#### OPTIONAL KITS

##### AmpFlex® 193

##### Flexible Current Probe (6500A)

Color-coded, 24", rated 600V CAT IV



##### MN193

##### Current Probe (5A/100A)

Color-coded, rated 600V CAT III



\* Registration must take place within 30 days of purchase

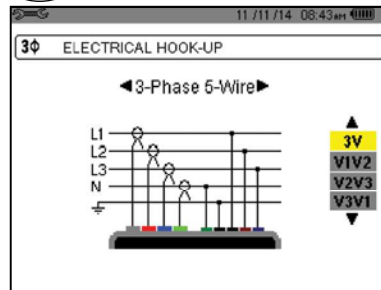
### PowerPad® III Model 8336

#### Large Color Functional Displays

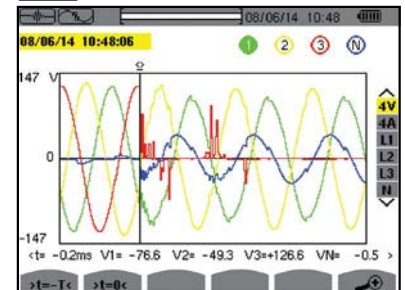
#### FEATURES

- Measurement of TRMS voltages up to 1000Vrms AC/DC for two-, three-, four- or five-wire systems
- Measurement of TRMS currents up to 10,000Arms (sensor dependent)
- Direct measurement of neutral current & voltage
- Frequency measurement (40 to 70Hz systems)
- Record and display trend data as fast as once per second for one month for up to 41 variables
- Up to 210 transient detection on all V and I inputs down to 65/sec
- Selectable PT and CT ratios
- Inrush current measurement
- Calculation of Crest Factors for V and A
- Calculation of the Factor K for transformers
- Calculation of short-term and long-term flicker
- Calculation of the Three-Phase voltage unbalance
- Harmonic measurements (referenced to the fundamental or RMS value) for voltage, current or power, up to 50<sup>th</sup> harmonic
- Displays of harmonic sequencing and direction and calculation of overall harmonics
- Real-time display of Phasor diagrams including values and phase angles
- Monitors the average value of any parameter, calculated for a period from 1 sec to 2 hrs
- Measurement of active, reactive and apparent power per phase and their respective sum total
- Calculation of power factor, displacement power factor and tangent factor
- Recording, time stamping and characterization of disturbance (swells, sags and interruptions, exceedance of power and harmonic thresholds)
- 2GB internal, simultaneous Trend Recording memory; Alarm, Photo and Transient Inrush memories are separate
- Measurement of energy VAh, varh, Wh & VADh
- The Max and Min RMS measurements are calculated every half-period
- Includes FREE DataView® software for configuring data storage, real-time display, analysis and report generation
- 65µs/sample trend recording

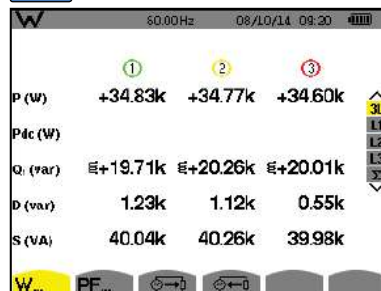
#### Configuration



#### Transient Mode



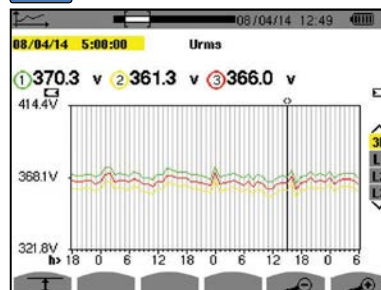
#### Power and Energy Mode



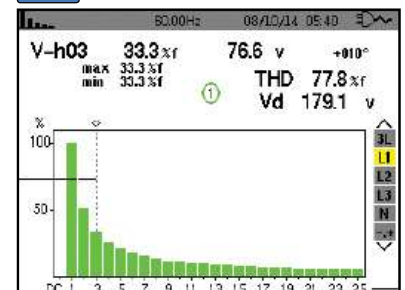
#### Phasor Diagram



#### Recording Mode



#### Harmonics Mode



#### CATALOG NO.

#### DESCRIPTION

2136.30	PowerPad® III Model 8336 (no probes)
2136.31	PowerPad® III Model 8336 w/4 193-24-BK Sensors
2136.32	PowerPad® III Model 8336 w/4 MN193-BK Probes

#### Accessories (Optional)

2133.73	Extra Large Classic Tool Bag
2140.15	Replacement – Soft Carrying Pouch
2140.17	5A Adapter Box ( <i>special order only</i> )
2140.19	Replacement – Battery 9.6V NiMH
2140.28	AC Current Probe Model MR193-BK
2140.32	AC Current Probe Model MN93-BK
2140.33	AC Current Probe Model SR193-BK
2140.34	AmpFlex® Sensor 24" Model 193-24-BK
2140.35	AmpFlex® Sensor 36" Model 193-36-BK
2140.36	AC Current Probe Model MN193-BK
2140.43	Replacement – Set of 5, 10 ft (3m) black leads w/5 black alligator clips
2140.44	Lead, 1 10 ft (3m) black lead w/black alligator clip
2140.45	Replacement – Set of 12, Color-coded Input ID Markers
2140.46	Replacement – 5 ft USB Cable
2140.48	MiniFlex® Sensor 10" Model MA193-10-BK
2140.49	AC/DC Current Probe Model J93-BK