

Model 8220

A measurement tool for electrical parameters and distribution network disturbances

SPECIFICATIONS

MODEL	8220
ELECTRICAL	
Voltage (TRMS)	Phase-to-Phase: 660V; Phase-to-Neutral: 600V
Current (TRMS)	MIN Clamp: 5mA to 6A/120A or 2 to 240A MR Clamp: 10 to 1000A _{AC} , 10 to 1400A _{DC} SR Clamp: 3 to 1200A MiniFlex [®] : 10 to 1000A AmpFlex [®] : 10 to 6500A ⁽¹⁾
Frequency (Hz)	40 to 70Hz
Other Measurements	kW, kVAR, PF, DPF, VA, kWh, kVARh, VAh, Phase Rotation, Temperature, RPM, Resistance, Continuity, Diode Test
Harmonics	1 st to 50 th
Sampling Frequency	256 samples / cycle
Data Storage	Stores nine sets of readings totaling up to 99 snapshots for volts, amps, power and harmonics
Power Source	Six 1.5V AA Alkaline batteries (included)
Battery Life	≥8 hrs with display on ≥40 hrs with display off (recording mode)
MECHANICAL	
Communication Port	Optically isolated USB
Display	Three-line backlit color LCD digital display with custom icons and adjustable brightness & contrast
Dimensions	8.3 x 4.3 x 2.4" (211 x 108 x 60mm)
Weight	1.9 lbs (0.88kg)
Safety Rating	EN 61010, 600V CAT III, IP 54, Pollution Degree 2

⁽¹⁾Crest factor at 6500 = 1

PRODUCT INCLUDES

8220 Kit

One user selectable current probe with 10 ft lead and black connector (MN93 example shown), black and red 10 ft voltage leads and alligator clips, optical USB cable, six 1.5V batteries, two safety test probes, DataView[®] software, carrying bag and user manual.



Adapter – US 110V Power Adapter (optional)

Catalog #2140.37

(eliminates need for batteries)



FEATURES

- Measures up to 660Vrms or V_{DC}
- Measures up to 6500A_{AC} or 1400A_{DC} (probe dependent)
- Displays Min, Max and Average Volts and Amps, Crest Factor, Peak Value and K-Factor
- Calculates and displays Watts, VARs and VA, Power Factor and Displacement Power Factor for single-phase and balanced three-phase
- Measures and records power systems (kW, VA, kVAR)
- Energy metering (kAh, VARh, kWh)
- Displays total harmonic distortion (THD-F and THD-R) for voltage and current
- Displays individual harmonic values and % for volts and amps through the 50th harmonic
- The Max and Min RMS measurements are calculated every half-period
- Captures and displays inrush current
- Calculates and displays phase rotation and RPM
- Displays temperature in both °F and °C
- Displays resistance up to 2000Ω
- Conducts continuity and diode tests
- Stores up to nine complete sets of readings for all volt, amp, power and harmonic measurements
- Operates off batteries or optional power adapter
- Download stored data snapshots to DataView[®] software via optical USB port (included)
- Includes FREE DataView[®] software for data storage, real-time waveform display, analysis and report generation

CATALOG NO.	DESCRIPTION
2130.90	Power Quality Meter Model 8220 (no probes)
2130.91	Power Quality Meter Model 8220 w/MN93-BK (240A)
2130.92	Power Quality Meter Model 8220 w/SR193-BK (1200A)
2130.93	Power Quality Meter Model 8220 w/24" 193-24-BK (AmpFlex [®] 6500A)
2130.96	Power Quality Meter Model 8220 w/MN193-BK (5A/100A)
2130.97	Power Quality Meter Model 8220 w/MA193-10-BK (1000A)

