






# Power Quality Analyzer Comparison Chart

v0220

PowerPad® Jr PowerPad® III						
		<b>8220</b>	<b>8230</b>	<b>8333</b>	<b>8336</b>	<b>8436</b>
AEMC Catalog Number		2130.90	2130.81	2136.10	2136.30	2136.43
Number of inputs (V / A)		2V / 1A		4V / 3A	5V / 4A	
Number of input channels (V / A)		1V / 1A		3V / 4A	4V / 4A	
Voltage AC / DC (TRMS)		6 to 600Vac,dc		2 to 1000Vac / 2 to 1200Vdc		
Voltage Ratio		up to 1200kV		up to 500kV		
Current AC / DC (TRMS)		0.1A-6.5kAac / 1A-1400Adc (probe dependent)		5mA to 10kAac / 10mA to 5000Adc (probe dependent)		
C U R R E N T	AmpFlex & MiniFlex (AC only)	10A to 6500Aac		100mA to 10kAac		
	SR193 (AC only)			1A to 1200Aac		
	MN93 (AC only)	500mA to 240Aac		200mA to 240Aac		
	MN193 (AC Only) (dual range)	0.1A to 6A (5A) / 0.5A to 120Aac (100A)		5mA to 6A (5A) / 0.1A to 120Aac (100A)		
	MR193 (AC/DC)			1A to 1200Aac/dc		
	SL261 (AC/DC) (dual range)	0.1A to 100Aac/dc		10mA to 100Aac/dc		
	J93 (AC/DC)	not supported		50A to 3500Aac / 50A to 5000Adc		
Current Ratio		up to 3kA		up to 60kA		
Line Frequency				40 to 70Hz		
Harmonics, DF, THD		orders 0 to 50 on V, A, S, U		orders 0 to 50 and phase shift on V, A, S, U		
Power Values		W, VA, var, PF, DPF		W, VA, var, VAD, PF, DPF, cos φ, tan φ		
Energy Values		Wh, VAh, varh		Wh, VAh, varh, VADh		
Energy Values per IEEE 1459		No		Yes (P, Q1, D, N, S)		
Energy Unit Options (BTU, Joule, TOE)		No		Yes		
Transient Captures		No		50	210	
Screen Captures ("Photos")		99	8	12	50	
Flicker - Pst / Plt		No / No	Yes / No		Yes / Yes	
InRush		Yes		No	Yes	
Alarms		No	4096 of 18 types	4,600+ of 10 types	16,000+ of 40 types	
Unbalance		No		Yes		
Peak Values				Yes		
Min/Max Values				Yes		
Phasor (Fresnel) Diagram		No		Yes		
Transformer Factor K or K-Factor?		K-Factor		Factor K		
Recording Memory (any SD card size)		None: 99 photos only	1MB internal, no SD	256MB max	2GB max	
Recording Duration		"Record to PC" option in software	up to several days	1 day to several weeks	1 day to several years	
Downloading Recordings		USB download		USB download or direct SD card read from PC		
Communications				USB		
Software				Yes - DataView Included		
Languages		1	6	26		
Power Supply		6 x AA (LR6) Alkalines	6 x AA (LR6) NiMH Rechargeables w/110V charger	9.6V NiMH rechargeable battery with 110/220V charger	110 V-1000 V, DC to 440 Hz, 9.6 V NiMH battery	
Battery Life		>40 hrs w/no backlighting	>40 hrs w/display off (recording)	>15 hours (recording)		
Power from phase		No		"Power From Phase" Adapter, up to 1000V	Yes	
Electrical Safety		600V CAT III per IEC 61010		600V CAT IV / 1000V CAT III per IEC 61010		
Protection		IP 54		IP 53 / IK 08	IP 67	
Dimensions		8.3 x 4.3 x 2.4"		7.9 x 9.8 x 2.6"	10.6 x 9.8 x 7.1"	
Weight		1.94 lbs		3.97 lbs	8.2 lbs	
Warranty		2 years		2 years; extends to 3 years if registered within 30 days of purchase		
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