3-Phase Power Comparison Tool

Compare 7 different Instruments, up to 3 simultaneously. Differences highlighted in green.


3945-B


CA 8331


8333


8335


8336


8435


PEL102/103

ver 15.07.23

Choose From DropDown Menu Selections Below

	8333	8336	8435
Mission	Power Quality Analysis	Power Quality Analysis	Power Quality Analysis - IP67 Water Resistant
AEMC Catalog #	2136.10	2136.30	2136.41
Firmware	≥4.0	≥4.0	≥3.1
Input Terminals	4V / 3I	5V / 4I	5V / 4I
Channels	3U / 4I	4U / 4I	4U / 4I
RMS Voltage Max - Phase-to-Neutral	1000Vrms	1000Vrms	1000Vrms
RMS Voltage Max - Phase-to-Phase	2000Vrms	2000Vrms	2000Vrms
Peak Voltage Max - Phase-to-Neutral	1414Vpk	1414Vpk	1697Vpk
Peak Voltage Max - Phase-to-Phase	2828Vpk	2828Vpk	3394Vpk
DC Voltage Max	1200Vdc	1200Vdc	1697Vdc
AC Current Max (Probe Dependent)	10,000Aac	10,000Aac	6500Aac
DC Current Max (Probe Dependent)	5000Adc	5000Adc	1400Adc
Ratios Volt	Yes	Yes	Yes
Ratios Ampere	Yes	Yes	Yes
Flex Sensors - Selectable Ranges Y/N? (Ranges)	Y (100/6500/10kA)	Y (100/6500/10kA)	No
AmpFlex (193-24/36-BK) Probe Specs Ranges and Resolution - Unity Gain Un / Amplified Anom In Instrument Column (39.1uVac/Aac @ 50Hz) (47uVac/Aac @ 60Hz) (24" 610mm long ; 7.64" 190mm diameter) (36" 914mm long ; 11.46" 290mm diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	(100A Range) [0.10 ; 100.0A] resolution 0.01A [>100A] resolution 0.1A (6500A Range) [10.0 ; 1000A] resolution 0.1A [1000 ; 6500A] resolution 1.0A (10kA Range) [10.0 ; 10000A] resolution 1.0A [>10,000A] resolution 10.0A	(100A Range) [0.10 ; 100.0A] resolution 0.01A [>100A] resolution 0.1A (6500A Range) [10.0 ; 1000A] resolution 0.1A [1000 ; 6500A] resolution 1.0A (10kA Range) [10.0 ; 10000A] resolution 1.0A [>10,000A] resolution 10.0A	[10.0 ; 1000A] resolution 0.1A [1000 ; 6500A] resolution 1.0A
MiniFlex (MA193-10-BK) Probe Specs Ranges and Resolution - Unity Gain Un / Amplified Anom In Instrument Column (39.1uVac/Aac @ 50Hz) (47uVac/Aac @ 60Hz) (10" 254mm long ; 2.75" 70mm diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	(100A Range) [0.10 ; 100.0A] resolution 0.01A [>100A] resolution 0.1A (6500A Range) [10.0 ; 1000A] resolution 0.1A [1000 ; 6500A] resolution 1.0A (10kA Range*) [10.0 ; 10000A] resolution 1.0A [>10,000A] resolution 10.0A *Limited By Conductor Diameter	(100A Range) [0.10 ; 100.0A] resolution 0.01A [>100A] resolution 0.1A (6500A Range) [10.0 ; 1000A] resolution 0.1A [1000 ; 6500A] resolution 1.0A (10kA Range*) [10.0 ; 10000A] resolution 1.0A [>10,000A] resolution 10.0A *Limited By Conductor Diameter	[10.0 ; 1000A] resolution 0.1A [1000 ; 6500A] resolution 1.0A
SR193 Probe Specs Ranges and Resolution (1000Aac nom) (1mVac/Aac) (2" 52mm clamping diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	[1 ; 1000A] resolution 0.1A [>1000A] resolution 1.0A	[1 ; 1000A] resolution 0.1A [>1000A] resolution 1.0A	[1 ; 1000A] resolution 0.1A [>1000A] resolution 1.0A
MN93 Probe Specs Ranges and Resolution (200Aac nom) (5mVac/Aac) (0.8" 20mm clamping diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	[0.2 ; 200A] resolution 0.1A	[0.2 ; 200A] resolution 0.1A	[0.2 ; 200A] resolution 0.1A

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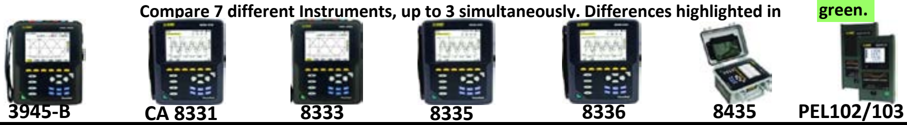

3945-B | CA 8331 | 8333 | 8335 | 8336 | 8435 | PEL102/103

Choose From DropDown Menu Selections Below

ver 15.07.23

	8333	8336	8435
MN193 Probe Specs Ranges, Resolution & Accuracy (5A / 100A nom) (5A 200mV / 100A 10mVac/Aac) (0.8" 20mm clamping diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	(5A Range) [0.005 ; 5A] resolution 0.001A (100A Range) [0.1 ; 100A] resolution 0.01A [>100A] resolution 0.1A	(5A Range) [0.005 ; 5A] resolution 0.001A (100A Range) [0.1 ; 100A] resolution 0.01A [>100A] resolution 0.1A	(5A Range) [0.005 ; 5A] resolution 0.001A (100A Range) <0.2A displayed as 0 [0.1 ; 100A] resolution 0.01A [>100A] resolution 0.1A
MR193 (AC/DC) Probe Specs Ranges and Resolution (1000Aac / 1400Adc) (1mVac/Aac) (1.6" 42mm clamping diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	[1 ; 1000Aac/dc] resolution 0.1A [>1000Adc] resolution 1.0A	[1 ; 1000Aac/dc] resolution 0.1A [>1000Adc] resolution 1.0A	[1 ; 1000Aac/dc] resolution 0.1A [>1000Adc] resolution 1.0A
SL261 (AC/DC) Probe Specs Ranges and Resolution (10A / 100A nom) (10A 100mV / 100A 10mVac/Aac) (0.46" 12mm clamping diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	(10A Range) [0.01 - 10Aac/dc] resolution 0.001A [>10Aac/dc] resolution 0.01A (100A Range) [0.1 - 100Aac/dc] resolution 0.01A [>100Aac/dc] resolution 0.1A	(10A Range) [0.01 - 10Aac/dc] resolution 0.001A [>10Aac/dc] resolution 0.01A (100A Range) [0.1 - 100Aac/dc] resolution 0.01A [>100Aac/dc] resolution 0.1A	(10A Range) [0.01 - 10Aac/dc] resolution 0.001A [>10Aac/dc] resolution 0.01A (100A Range) [0.1 - 100Aac/dc] resolution 0.01A [>100Aac/dc] resolution 0.1A
J93 (AC/DC) Probe Specs Ranges and Resolution (3500Aac / 5000Adc nom) (286uVac/Aacdc) (2.83" 72mm clamping diameter) 4 Digits Display Max Accuracy Specs - Refer To User Manual	[3 ; 3500Aac] resolution 1.0A [3 ; 5000Adc] resolution 1.0A	[3 ; 3500Aac] resolution 1.0A [3 ; 5000Adc] resolution 1.0A	N/A
5A Adapter Box Specs Ranges and Resolution (5A nom) (0.2mVac/mAac) (Dim 6.0 x 3.74 x 3.38" (153 x 95 x 86mm)) 4 Digits Display Max Accuracy Specs - Refer To User Manual	[0.005 ; 6.0A] resolution 0.001A	[0.005 ; 6.0A] resolution 0.001A	[0.005 ; 6.0A] resolution 0.001A
Distribution Systems	(4 total) 1P-2W 2P-3W 3P-3W 3P-4W	(8 total) 1P-2W 1P-3W 2P-2W 2P-3W 2P-4W 3P-3W 3P-4W 3P-5W	(8 total) 1P-2W 1P-3W 2P-2W 2P-3W 2P-4W 3P-3W 3P-4W 3P-5W
Distribution System Connection Methods	Standard 2 elements (Aron) 2 1/2 elements	Standard 2 elements (Aron) 2 1/2 elements	Standard 2 elements (Aron) 2 1/2 elements
Input Impedance - Voltage	1.195M	1.195M	969K
Input Impedance - Current (Probe/Rogowski)	1M / 12.4K	1M / 12.4K	1M / 12.4K
Phase Rotation	Yes	Yes	Yes
Waveform Mode	Yes	Yes	Yes
Transient Mode	store 7 searches max 51 recorded	store 7 searches max 210 recorded	store 7 searches max 210 recorded
True Inrush Mode - Type - Duration	No	Yes (RMS+PEAK & RMS) up to 1 min & 10 mins	Yes (RMS+PEAK & RMS) up to 1 min & 10 mins

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Alarm Mode	10 types up to 2 active 4662 recorded	40 types up to 7 active 16,362 recorded	40 types up to 7 active 16,362 recorded
Flicker Short (PST) / Long (PLT)	Short (PST)	Short (PST) & Long (PLT)	Short (PST) & Long (PLT)
Photograph/Snapshot Mode (# Of Photographs)	Yes (12)	Yes (50)	Yes (50)
Harmonic Mode (up to 50th) - Expert	Yes	Yes	Yes
Harmonic Mode (up to 50th) - Neutral	No	Yes	Yes
Harmonic Mode - RMS Distortion	Yes	Yes	Yes
THDf and THDr - %f , %r	Yes	Yes	Yes
Power Mode- Power Distortion	Yes	Yes	Yes
Power Mode - DC Power	No	Yes	Yes
Power And Energy - Labels IEEE 1459 {W ; VAR ; VAD ; VAR ; VA} => {P ; Q1 ; D ; N ; S)	Yes	Yes	No
Energy - Units	Wh, VARh, VAh	Wh, VARh, VAh	Wh, VARh, VAh
Energy - Reported Parameters	Ph, Q1h, Dh, Nh, Sh	Ph / Joule / Nuclear toe / Non-Nuclear toe / BTU, Q1h, Dh, Nh, Sh	Wh / Joule / Nuclear toe / Non-nuclear toe / BTU, VARh, VADh, VAh
Calculation Methods - Non Active Values	Yes Reactive Values With And Without Harmonics	Yes Reactive Values With And Without Harmonics	Yes Reactive Values With And Without Harmonics
Calculation Methods - Y / N - K-Factor / Factor K?	Yes - Factor K	Yes - Factor K	Yes - Factor K
Line Frequency	40 to 70Hz	40 to 70Hz	40 to 70Hz
Sampling Rate - # Of Samples Per Line Cycle	256	256	256
Type LCD	TFT - 5.7" diagonal 320x240 resolution	TFT - 5.7" diagonal 320x240 resolution	STN
Auto Shut OFF LCD Possible When Power On	Yes	Yes	No
Display - Night Mode	Yes	Yes	No
Front Panel Keypad	Capture key for Transient only (no capture menu) Alarm key	Capture key (capture menu) Alarm key	Capture key (capture menu) Alarm key
Storage Maximum - SD Card / Internal	256Mb	SD - 2Gb	SD - 2Gb
Recording Length Calculator?	Yes - AEMC's Trend Duration Calculator	Yes - AEMC's Trend Duration Calculator	Yes - AEMC's Trend Duration Calculator
Dataview - Software	Included	Included	Included
DataView - Connection Method	USB Type-B	USB Type-B	USB Type-B
Power Source / Battery Information	120V/240Vac External Adapter with Internal NiMH Battery Pack (9.6V / 4000mAh)	120V/240Vac External Adapter with Internal NiMH Battery Pack (9.6V / 4000mAh)	120V/240Vac External Adapter with Internal NiMH Battery Pack (9.6V / 4000mAh)
IP Mechanical Rating	IP53	IP53	IP67
Measurement Category Safety Rating	600V CAT IV 1000V CAT III	600V CAT IV 1000V CAT III	600V CAT IV 1000V CAT III
Electromagnetic Compatibility Electrical Safety	Immunity: IEC 61326-1 Electromagnetic Emissions: EN 55011, Group 1, Class A	Immunity: IEC 61326-1 Electromagnetic Emissions: EN 55011, Group 1, Class A	Immunity: EN 61326-1: 2006 Electrical Safety: EN 61010-1
Shock And Vibration Per EN61010-1	Yes	Yes	Yes
Operating Temperature	32 to 122F / 0 to 50C	32 to 122F / 0 to 50C	32 to 122F / 0 to 50C
Operating Humidity	10 to 85%	10 to 85%	10 to 90%
Operating Altitude	0 to 6560ft (2000m)	0 to 6560ft (2000m)	0 to 6560ft (2000m)
Weight	Approx 2kg	Approx 2kg	4.3 lbs / 1.95kg

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	8333	8336	8435
Dimensions	7.9 x 9.8 x 2.8" (200 x 250 x 70mm)	7.9 x 9.8 x 2.8" (200 x 250 x 70mm)	7.9 x 9.8 x 2.6" (200 x 250 x 67mm)
Additional Functions/Features	Color Coded Input ID Markers/Clips (12 Colors) Cat#: 2140.45	Color Coded Input ID Markers/Clips (12 Colors) Cat#: 2140.45	Weather Resistant IP67 Rating, Must Use Waether Resistant AmpFlex (#2140.74) To Maintain IP67 Color Coded Input ID Markers/Clips (12 Colors) Cat#: 2140.45
	8333	8336	8435