

## Technical specifications

	C.A 8331	C.A 8333	C.A 8336	C.A 8435
<b>Number of channels</b>	3U / 4I		4U / 4I	
<b>Number of inputs</b>	4V / 3I		5V / 4I	
<b>Voltage (TRMS AC+DC)</b>	2 V to 1,000 V up to 500 kV			
<b>Current (TRMS AC+DC)</b>	MN93: 500 mA to 200 A <sub>AC</sub> ; MN93A: 0.005 A <sub>AC</sub> to 100 A <sub>AC</sub>			
	C193 clamp 1 A to 1,000 A <sub>AC</sub>			
	AmpFlex® or MA193 clamps 100 mA to 10,000 A <sub>AC</sub>		30 A to 6,500 A <sub>AC</sub>	
	PAC93 clamp 1 A to 1,300 A <sub>AC/DC</sub>			
	E3N clamp 50 mA to 100 A <sub>AC/DC</sub>			
	Current ratio up to 60 kA 40 Hz to 69 Hz			
<b>Frequency</b>	40 Hz to 69 Hz			
<b>Power values</b>	W, VA, var, VAD, PF, DPF, cos φ, tan φ			
<b>Energy values</b>	Wh, varh, VAh, VADh			
<b>Harmonics</b>	yes			
	THD yes, orders 0 to 50, phase			
	Expert mode -   50   yes			
<b>Transients</b>	-			
<b>Flicker</b>	Pst Plt -   -   Yes			
<b>Inrush mode</b>	-   yes on 4 periods   yes > 10 minutes			
<b>Unbalance yes</b>	yes			
<b>Recording</b>	Min/Max yes			
	of a selection of parameters at the max. sampling rate 4 hours to 2 weeks   A few days to several weeks   2 weeks to several years			
<b>Alarms</b>	-   4,000 of 10 different types   10,000 of 40 different types			
<b>Peak</b>	yes			
<b>Vectorial representation</b>	automatic			
<b>Display</b>	Colour ¼ VGA TFT screen, 320 x 240, diagonal 148 mm			
<b>Capture of screens and curves</b>	12		50	
<b>Electrical safety</b>	IEC 61010 1,000 V CAT III / 600 V CAT IV			
<b>Protection</b>	IP53 / IK08		IP67	
<b>Languages</b>	more than 27			
<b>Communication interface</b>	USB			
<b>Battery life</b>	up to 13 hours			
<b>Power supply</b>	9.6 V NiMH rechargeable battery or external mains charger			
<b>Dimensions</b>	240 x 180 x 55 mm		270 x 250 x 180 mm	
<b>Weight</b>	1.9 kg		3.7 kg	

### STATE AT DELIVERY FOR THE C.A 8336, C.A 8333 AND C.A 8331

#### Models without sensors

One Qualistar+ analyser delivered with a bag for accessories, 5 x 4 mm banana voltage leads 3 m long, 5 crocodile clips, a set of 12-colour inserts/rings for identifying the leads and inputs, a scratch-proof screen-protection film (mounted), a USB cable, a mains power cable, a mains power pack, a safety datasheet, a multi-language operating manual CD and a PC data retrieval software CD (Power Analyser Transfer).

### STATE AT DELIVERY FOR THE C.A 8335

**C.A 8435 AMP450:** delivered with bag no. 22, USB cable, IP67 mains power cable, 4 AmpFlex® 450 IP67 A196 current sensors, 5 x 3 m black IP67 BB196 banana leads, 5 lockable crocodile clips, 12-colour identification kit for the leads and inputs, scratchproof screen-protection film (mounted), safety datasheet, CD containing the multi-language operating manual and CD PC data retrieval software and CD containing PC data retrieval software (Power Analyzer Transfer).

### References for ordering

C.A 8336 alone .....	P01160591
C.A 8333 alone .....	P01160541
C.A 8331 alone .....	P01160511
C.A 8435 alone .....	P01160585
C.A 8435 AmpFlex® 450 mm .....	P01160587

### Accessories and replacement parts

MN93 clamp .....	P01120425B	PA31ER mains adapter .....	P01102150
MN93A clamp .....	P01120434B	Qualistar screen film .....	P01102059
MiniFlex® MA196, 350 mm IP67 .....	P01120568	Set of id. rings/inserts .....	P01102080
MiniFlex® MA193, 250 mm .....	P01120580	Set of caps (C.A 8435) .....	P01102117
MiniFlex® MA193, 350 mm .....	P01120567	Set of 5 x 3 m IP67 (BB196) banana leads .....	P01295479
PAC93 clamp .....	P01120079B	Carrying bag no. 21 .....	P01298055
AmpFlex® A193 450 mm clamp .....	P01120526B	Carrying bag no. 22 .....	P01298056
AmpFlex® A193 800 mm clamp .....	P01120531B	USB-A USB-B lead .....	P01295293
AmpFlex® A196 450 mm IP67 clamp .....	P01120552	5 A box .....	P01101959
C193 clamp .....	P01120323B	Mains power pack (C.A 8331-33-35-36) .....	P01102057
E3N clamp .....	P01120043A	IP67 mains lead (C.A 8435) .....	P01295477
E3N Adapter .....	P01102081	Dataview® Software .....	P01102095
E3N mains power pack .....	P01120047	Lockable crocodile clips (x 5) .....	P01102099
J93 clamp .....	P01120110	Kit containing 5 banana leads, 5 crocodile clips and 1 set of coloured rings .....	P01295483
Battery pack .....	P01296024	Kit containing 4 banana leads, 4 crocodile clips and 1 set of coloured rings .....	P01295476
ESSAILEC casing .....	P01102131		
Reeling Box .....	P01102149		



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For assistance and ordering

