

C.A 8331 - C.A 8333 - C.A 8336 - C.A 8436

Power and Energy quality Analysers



QUALISTAR+

- Measure all the necessary voltage, current and power parameters for full diagnosis of an electrical installation.
- All the power measurements needed to make an energy efficiency diagnosis
- Capture and record all the parameters, transients, alarms and wave forms simultaneously.
- Proven simplicity of use.

True **InRush**

The experience of the Qualistar, ensuring high performance

- 5 voltage inputs & 4 current inputs
- 10-minute Inrush mode
- Calculation of distorting power
- IP67: all-terrain model available

1000 V
CAT III

600 V
CAT IV

CEI
61000-4-30

EN
50160



Measure up



Qualistar+ range

Designed for inspection and maintenance teams in industrial or administrative buildings, the Qualistar can provide a snapshot of the main electrical network quality characteristics. Easy to handle and precise, these instruments also offer a large number of calculated values and several processing functions.



Designed to cover all 600 V CAT IV and 1000 V CAT III applications in compliance with the IEC 61010 standard, the Qualistar+ range is divided up according to the functions provided and the connections available:

- ▶ C.A 8331 & C.A 8333: 4 voltage inputs and 3 current inputs,
- ▶ C.A 8336 & C.A 8436: 5 voltage inputs and 4 current inputs.

The whole range benefits from a set of inserts and rings for customizing the colour-coding in each country. Equipped with IP67 connections to ensure water-proofing, the C.A 8436 is also compatible with all the existing Qualistar measuring accessories.



Accessories and software

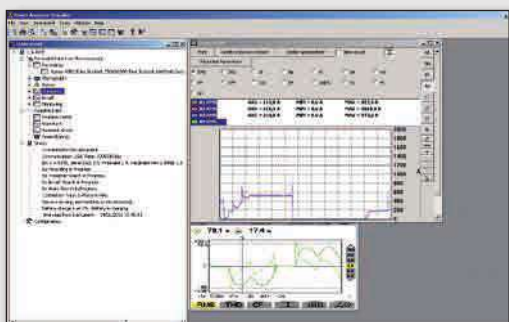
ACCESSORIES



Model	MN93	MN 93A	MA193-250	MA196-350 MA193-350	PAC93	A196-610 A193-450	A193-800	C193	E3N	J93
Measurement range	500 mA to 200 AAc	0.005 AAc to 100 AAc	100 mA to 10 kAAc	100 mA to 10 kAAc	1 A to 1,000 AAc 1 A to 1,300 AAc	100 mA to 10 kAAc	100 mA to 10 kAAc	1 A to 1,000 AAc	50 mA to 10 AAc/dc 100 mA to 100 AAc/dc	50 A to 3,500 AAc 50 A to 5,000 AAc
Clamping Ø / length	20 mm	20 mm	Ø 70 mm / 250 mm	Ø 100 mm / 350 mm	1 x Ø 39 mm 2 x Ø 25 mm	Ø 190 mm / 610 mm Ø 140 mm / 450 mm	Ø 250 mm / 800 mm	52 mm	11.8 mm	72 mm
IEC 61010	600 V CAT III / 300 V CAT IV		1,000 V CAT III / 600 V CAT IV		600 V CAT III / 300 V CAT IV	1,000 V CAT III / 600 V CAT IV		600 V CAT IV	600 V CAT III / 300 V CAT IV	600 V CAT III / 300 V CAT IV

SOFTWARE

The measurements made with the Qualistar can be processed using two software products; **Power Analyzer Transfer** delivered as standard and **DataView** available as an option.



Power Analyzer Transfer

- ▶ Configuration of the instrument: setup, recording, alarms
- ▶ Real-time display
- ▶ Processing of the recorded data and the alarms
- ▶ Transfer of screenshots and transients
- ▶ Data export into Excel spreadsheets
- ▶ Data export in graphic form in Windows™



DataView®

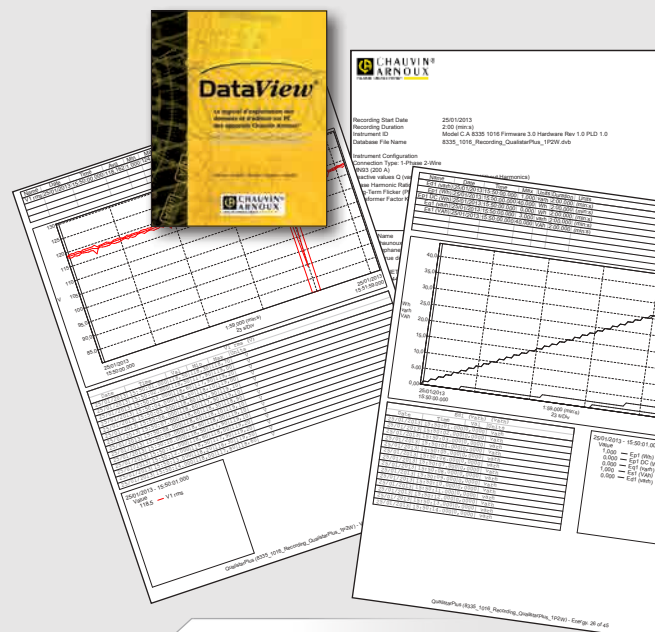
The simple-to-use **DataView** software automatically recognizes the instrument connected to the PC and opens the corresponding menu. Users have direct access to:

- ▶ database management
- ▶ EN 50160 report management

DataView is compatible with other Chauvin Arnoux® products:

Qualistar+ power analysers, C.A 8220 & C.A 8230 power analysers, F400 and F600 multimeter clamps, and other measuring instruments.

Minimum operating system requirements:
Windows® 7, 8 and 10.



EN 50160

The EN 50160 European standard regulates the quality of the voltage distributed by electricity suppliers. To define the quality of the voltage, a measurement campaign must be carried out over a 7-day period with an IEC 61000-4-30 instrument.

The measurements correspond to the different types of disturbances liable to affect the voltage: voltage drops, outages, overvoltages, slow voltage variations, network frequency variations, voltage unbalance, harmonics, rapid voltage variations, flicker.

Once these measurements have been taken, the recorded data are analysed.

The PAT software automatically configures the instrument in compliance with the standard.

The DataView® software can be used to generate the report automatically in compliance with the EN50160 standard.

Technical specifications

	C.A 8331	C.A 8333	C.A 8336	C.A 8436
Number of channels	3U / 4I		4U / 4I	
Number of inputs	4V / 3I		5V / 4I	
Voltage (TRMS AC+DC)	2 V to 1,000 V			
Voltage ratio	up to 500 kV			
Current (TRMS AC+DC)	MN93: 500 mA to 200 A _{AC} ; MN93A: 0.005 A _{AC} to 100 A _{AC}			
MN clamps	1 A to 1,000 A _{AC}			
C193 clamp	100 mA to 10,000 A _{AC}			
AmpFlex® or MiniFlex® clamps	1 A to 1,300 A _{AC/DC}			
PAC93 clamp	50 mA to 100 A _{AC/DC}			
E3N clamp	50 A to 3,500 A _{AC} / 5,000 A _{DC}			
J93	up to 60 kA			
Current ratio	40 Hz to 69 Hz			
Frequency	W, VA, var, VAD, PF, DPF, cos φ, tan φ			
Power values	Wh, varh, VAh, VADh			
Energy values	yes			
Harmonics	yes, orders 0 to 50, phase			
THD	-			
Expert mode	yes			
Transients	-		50 210	
Flicker	Pst yes			
Plt	-		Yes	
Inrush mode	-		yes on 4 periods yes > 10 minutes	
Unbalance yes	yes			
Recording	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	
Alarms	-		4,000 of 10 different types 10,000 of 40 different types	
Peak	yes			
Vectorial representation	automatic			
Display	Colour ¼ VGA TFT screen, 320 x 240, diagonal 148 mm			
Capture of screens and curves	12		50	
Electrical safety	IEC 61010 1,000 V CAT III / 600 V CAT IV			
Protection	IP53 / IK08		IP67	
Languages	more than 27			
Communication interface	USB			
Battery life	up to 13 hours			
Power supply	9.6 V NiMH rechargeable battery or external mains charger			
Dimensions	240 x 180 x 55 mm		270 x 250 x 180 mm	
Weight	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, 4 x 4 mm banana voltage leads 3 m long (5 for CA 8336), 4 crocodile clips (5 for CA 8336), 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).

References for ordering

C.A 8336 alone	P01160591
C.A 8333 alone	P01160541
C.A 8331 alone	P01160511
C.A 8436 alone	P01160595

Accessories and replacement parts

MN93 clamp	P01120425B	Qualistar screen film	P01102059
MN93A clamp	P01120434B	Set of id. rings/inserts	P01102080
MiniFlex® MA193, 250 mm	P01120580	Set of caps (C.A 8436)	P01102117
MiniFlex® MA193, 350 mm	P01120567	Set of 5 x 3 m IP67 (BB196) banana leads	P01295479
MiniFlex® MA196, 350 mm IP67	P01120568	Carrying bag no. 21	P01298055
PAC93 clamp	P01120079B	Carrying bag no. 22	P01298056
AmpFlex® A193 450 mm clamp	P01120526B	C.A 8436 Banana mains cable	P01295496
AmpFlex® A193 800 mm clamp	P01120531B	USB-A USB-B lead	P01295293
AmpFlex® A196, 610 mm IP67 clamp	P01120554	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 8436)	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		
PA31ER mains adapter	P01102150		

STATE AT DELIVERY FOR THE C.A 8436

Models without sensors: delivered with bag no. 21, USB cable, IP67 mains power cable, 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).



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For assistance and ordering

