

C.A 8332B C.A 8334B C.A 8335

The experience of the Qualistar

ensuring high performance



Power and energy quality analysers C.A 8332B - C.A 8334B - C.A 8335

Designed for inspection and maintenance teams in industrial or administrative buildings, the Qualistars 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.





- Real-time display of wave forms (4 voltages and 4 currents)
- ✓ Half-period RMS measurements of voltages and currents
- ✓ Intuitive use
- ✓ Automatic recognition of the different types of current sensors
- ✓ Integration of all the DC components
- ✓ Measurement, calculation and display of harmonics up to the 50th order, with their phase information
- ✓ Calculation of Total Harmonic Distortion (THD)
- ✓ Capture of transients as short as one sample (1/256th of a period)
- ✓ Display of phasor diagram
- Measurement of the total VA, W and var power values, as well as the values per phase
- ✓ Measurement of total VAh, Wh and varh values, as well as the values per phase

- ✓ Calculation of the K-Factor
- ✓ Calculation of the cos φ displacement power factor (DPF) and the power factor (PF)
- Capture of up to 300 transients
- ✓ Flicker calculation
- ✓ Unbalance calculation (current and voltage)
- Monitoring of the electrical network with setting of alarms
- Back-up and recording of screenshots (image and data)
- ✓ Recording and export on PC
- ✓ Software for data recovery and real-time communication with a PC.

Power and energy quality analysers C.A 8332B - C.A 8334B - C.A 8335

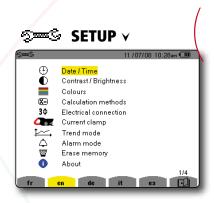


SETUPIJE

Users enter the instrument's general parameters (date and time, display contrast, etc.) directly.

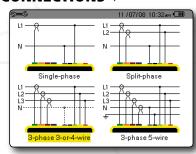
They then select the type of network to which the Qualistar is connected. The sensors connected are recognized automatically.

Verification is possible on the corresponding screen.

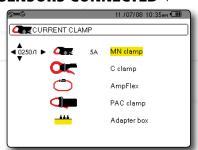




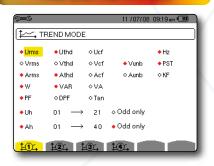
CONNECTIONS Y



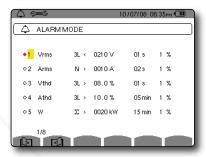
SENSORS CONNECTED V



RECORDINGS



ALARMS



Practical advantages

Accessible on the front panel of the Qualistars®, screenshots can be produced simply by pressing a key. The Help function is available at every stage when you use the Qualistars®.



If you have any hesitations, the Help key clearly explains

the functions applicable to the screen display.



Screenshot

When this key is pressed, the instrument takes a screenshot. The screen displayed

is then saved automatically with time/ date-stamping.





To avoid overloading the memory, the user can select

the type of file to delete and only keep what is useful.



INSTANTLY VIEW THE CHARACTERISTICS OF A NETWORK

OBSERVATION

GRAPH



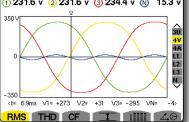
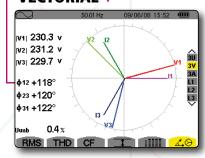


TABLE V



VECTORIAL





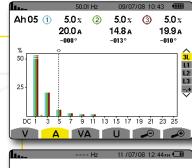
DIAGNOSIS

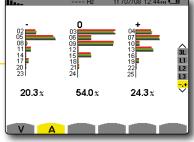
Harmonics mode

Global THD and phase by phase in U, I, V, VA in %, and RMS value, phase shift of harmonics.

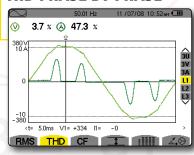
Only the C.A 8334 model has the function for harmonics in VA and the "expert mode". This mode can be used to analyse the influence of the harmonics on heating of the neutral or on rotating machines.

GLOBAL THD





THD PHASE BY PHASE V



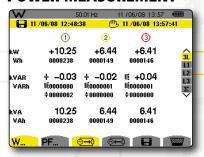
W Power/Energy mode

This mode displays all the values concerning power and energy.

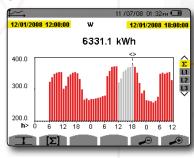
The "start" and "stop" keys can be used to activate and deactivate totalizing of the energies.

Measurements of: W, Var, VA
Wh, Warh, VAh
PF, DPF or cos φ and tan φ

POWER MEASUREMENT



INTEGRATION OF POWER / ENERGY OVER A PERIOD OF TIME VV



Power and energy quality analysers C.A 8332B - C.A 8334B - C.A 8335



MONITORING

All the monitoring operations are applied to all the characteristics simultaneously!

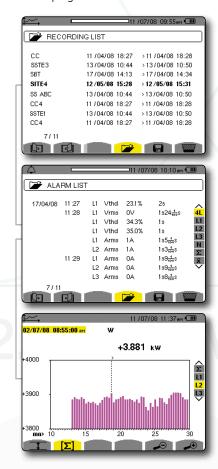


Alarms mode

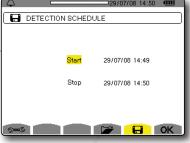
The alarms are defined when setting up the instrument. Users directly parameterize all the thresholds to be monitored when measuring. Every time there is an alarm threshold overrun, the instrument time/date-stamps the event and records its duration, as well as its Min and Max values.



When a recording is made, all the parameters required are saved with graphic display of all the parameters selected. In addition, a bargraph at the top of the window indicates the total recording time. The recording period and storage rate are both programmable.

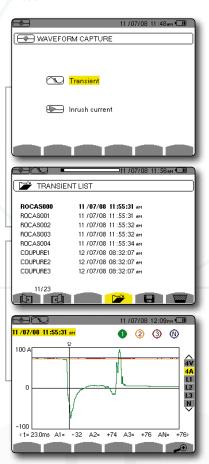






Transient mode

Transient mode can be used to capture events on the voltage and current, triggered according to thresholds. They are displayed over 4 periods of the event captured at a rate of 256 points/ period, with the possibility of zooming in or out.

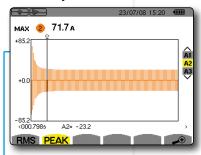


INRUSH

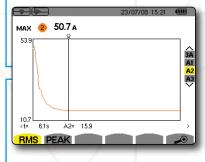
NEW FEATURE C.A 8335

The Inrush current is the maximum input current drawn by an electrical device when it is powered up. This measurement helps to size the electrical installation correctly.

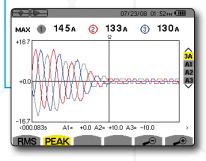
Envelope mode



RMS values



Wave form



SOFTWAREARE

Measurements made with the *Qualistar* can be processed with 2 software products.

Power Analyzer Transfer for basic processing, and **Data**View for more comprehensive processing.

Power Analyzer Transfer

- Configuration of the instrument: setup, recording, alarms
- Processing of recorded data and alarms
- Analysis of the data according to the EN50160 standard
- Transfer of screenshots and transients
- Export of the data into Excel spreadsheet
- Export of the data in graphic form in Windows™





DataView[®]

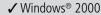
The easy-to-use **Data**View software automatically recognizes the instrument connected to the PC and opens the corresponding menu.

Users have direct access to:

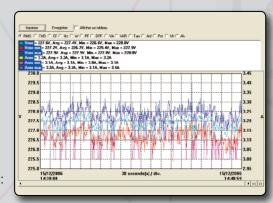
- ✓ the data recorded in the instrument
- ✓ its configuration
- ✓ the various real-time measurements
- ✓ printing of reports
- ✓ database management

These instruments are connected to the PC via a USB link or RS232 interface. It is compatible with other Chauvin Arnoux® products.

Minimum Operating System requirements:



- ✓ Windows® XP
- ✓ Windows® Vista



ACCESSORIES

In its standard configuration, the **Qualistar** is supplied in a carrying bag with its measurement leads and crocodile clips, its mains power supply, a PC connection cable and processing software.

Users can then choose the current clamps as required.

New with the C.A 8335! Colour-coded rings can be fitted at each end of the measurement leads, making it easier to identify your connections.



07/08 - 906211171 - Ed. 1 - Athana

Technical specifications C.A 8332B - C.A 8334B - C.A 8335

		C.A 8332B	C.A 8334B	Qualistar+
MEASUREMENTS		CIA OSSED	CIA 0554B	C.A 8335
Number of channels		31	J / 4I	4U / 4I
Voltage (RMS AC+DC) Phase-phase		6 V to 960 V		10 V to 1,000 V
Phase-neutral		6 V to 480 V		10 V to 1,000 V
Current (RMS AC+DC)		100 mA to 6,500 A		
	MN clamp	MN93: 2 to 240 A; MN93A: 0.005 A to 5 A / 0.1 A to 120 A		
	C clamp	3 A to 1,200 A		
AmpFLEX or MA clamps		30 A to 6,500 A		
PAC clamp		10 A to 1,000 AAC / 10 A to 1,400 ADC		
Frequency		40 Hz to 69 Hz		
Power values		W, VA, var, PF, DPF, cos φ, tan φ		
Energy values		Wh, varh, VAh		
Harmonics		yes		
	THD	Yes, orders 0 to 50, phase		
	Expert mode	- yes		yes
Transients		-	50	300
Flicker			yes	
Inrush mode		-	Yes, on 4 periods	Yes, > 1 minute
Unbalance			yes	
Recording (of all para	meters at max. sampling rate)	21 minutes	42 minutes	1 month
Min/Max recording		no		yes
Alarms		4,000 of 10 d	different types	10,000 of 40 different typ
Recognition of current sensors			8	8+
Peak			yes	
Vectorial representation		automatic		
Display		Colour ¼ VGA LCD screen, 320 x 240, diagonal 148 mm		
Capture of scree	ns and curves	8	12	50
Electrical safety		IEC 61010 1,000 V CAT III / 600 V CAT IV		
Languages		6		20+
Communication	interface	Optical RS232 / USB		USB type B
Power supply		9.6 V NiMH rechargeable battery		External mains charger
		g ,		600 V CAT IV
Dimensions		240 x 180 x 55 mm		
Weight		2.1 kg		

STATE AT DELIVERY

REFERENCES FOR ORDERING

C.A 8332B-INT AmpFLEX™ 450mm

C.A 8334B-INT AmpFLEX™ 450mm

C.A 8332B delivered with 1 carrying bag No. 22, an optical RS232 lead, a mains power cable, 4x 3 m voltage leads with 4 mm banana connectors, 4 crocodile clips, 1 safety plug, 1 operating manual, PC software for data recovery. Plus the set of current sensors chosen.

C.A 8334B delivered with 1 carrying bag No. 22, an optical RS232 lead, a mains power cable, 4x 3 m voltage leads with 4 mm banana connectors, 4 crocodile clips, 1 safety plug, 1 operating manual, PC software for data recovery. Plus the set of current sensors chosen.

C.A 8335 delivered with 1 carrying bag No. 22, 1 USB lead, 1 power supply charger, 1 mains power cable, 5 x 3 m voltage leads with Ø 4 mm banana connectors, 5 crocodile clips, 1 x 12-colour identification set for leads and inputs, 1 protective film for screen, 1 safety plug, 1 multilingual operating manual, PC software for data recovery.

C.A 8335 alone	P01160577	MN clampP01120425B	C.A8335 mains power pack P01102057
C.A 8332B-F MN93A clamp	P01160522	MN93A clamp P01120534B	USB-A/USB-B leadP01295291
C.A 8334B-F MN93A clamp	P01160652	C clampP01120323B	Qualistar screen filmP01102059
C.A 8332B-F AmpFLEX™ 450mm	P01160523	PAC clamp P01120079B	Set of id. rings/insertsP01102060
C.A 8334B-F AmpFLEX™ 450mm	P01160653	AMP450 clamp P01120526B	Carrying bag no. 21P01298055
C.A 8332B-INT MN93A clamp	P01160525	AMP800 clamp P01120531B	Carrying bag no. 22P01298056
C.A 8334B-INT MN93A clamp	P01160555	5 A boxP01101959	RS232 optical leadP01295190A

ACCESSORIES

DataView......P01102058
Other models: please contact us



FRANCE

Chauvin Arnoux

190, rue Championnet 75876 PARIS Cedex 18 Tel: +33 1 44 85 44 86 Fax: +33 1 46 27 95 59 export@chauvin-arnoux.fr www.chauvin-arnoux.fr

UNITED KINGDOM

Chauvin Arnoux Ltd

Waldeck House - Waldeck Road MAIDENHEAD SL6 8BR Tel: +44 1628 788 888 Fax: +44 1628 628 099 info@chauvin-arnoux.co.uk www.chauvin-arnoux.com

P01160526

MIDDLE EAST

Chauvin Arnoux Middle East

P.O. BOX 60-154 1241 2020 JAL EL DIB (Beirut) - LEBANON Tel: +961 1 890 425

Fax: +961 1 890 424 camie@chauvin-arnoux.com www.chauvin-arnoux.com

