

CA 3220 POWER ANALYSER

228.1.

01/04

Measure up

C.A 8220

W 30

CHAUVIN ARNOLX Hz

Measurement of all power values

- Measurement of very low and very high currents
- > Electric motor maintenance
- Analysis of phase shift and harmonics



CA 8220

The **CA 8220** wattmeter is designed for companies' testing and maintenance teams. The broad range of measurements which it provides also makes it ideal for technical and technological education.

Extremely easy to handle, it can be used to test electrical installations, particularly when they include systems based on power electronics. Geared firmly towards the world of electrical engineering and the testing of rotating machines, the **CA 8220** wattmeter is designed for companies' testing and maintenance teams.

With its liquid crystal segment display, the ergonomics of this compact, shockproof instrument's user interface make it intuitive, simple and comfortable to use. It automatically recognizes the type of sensor connected. The **CA 8220** is suitable for use in the field or on a benchtop thanks to its retractable stand. It can be used to obtain a snapshot of the main characteristics of a single-phase or balanced three-phase network.

In addition, it measures all the quantities required to test rotating machines (rotation speed/temperature).

Offering significant accuracy, this instrument covers measurements from a few milli-amperes to several kilo-amperes thanks to a wide choice of sensors.



MAIN MEASUREMENTS



CA 8220



SENSORS & CLAMPS FOR CURRENT MEASUREMENT

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Model	MN93	MN 93A	MA193-250	MA193-350	PAC93	A193-450	A193-800	C193	E3N
Measurement range	500 mA to 200 AAC	0.005 AAC to 100 AAC	10 A 6,500 A	10 A 6,500 A	1 A to 1,000 Aac 1 A to 1,300 Adc	10 A 6,500 A	10 A 6,500 A	1 A to 1,000 AAC	50 mA to 10 Aac/dc 100 mA to 100 Aac/dc
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 140 mm / 450 mm	Ø 250 mm / 800 mm	52 mm	11.8 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

POWER ANALYZER TRANSFER SOFTWARE

- > Real-time measurement display
- Data retrieval
- > Processing and analysis of the data saved on a PC
- Screenshots
- Back-up and export to Excel
- $\,$ > Operates with Windows $^{\scriptscriptstyle (\! 8\!)}$ 7, 8 and 10
- Available for download free of charge from our internet site (www.chauvin-arnoux.com/support)



TECHNICAL SPECIFICATIONS

Voltage range	6 VRMS to 600 VRMS AC+DC ±(0.5 % +2 counts)		
AC current range	100 mA to 6,500 A ±(0.5 % +1 count)		
DC current range	100 mA to 1,700 A ±(1 % +1 count)		
Min, Max, Avg, and Peak values (+ and -), CF	Yes		
Fundamental frequency	40 Hz to 70 Hz		
Screen	173-segment backlit LCD		
Single-phase and balanced three-phase	Yes		
W, VA and var power values, DF, THD, Cos $\boldsymbol{\phi}$	Yes		
varh and VAh energy values, Wh	Yes		
Harmonics	Up to 50th order		
Motor rotation speed	6 RPM to 120 kRPM ±(0.5 %)		
Temperature (Pt100)	-200 °C to +850 °C ±(1 % +10 counts)		
Resistance (winding)	0.0 Ω to 2,000 Ω ±(0.5 % +2 Ω)		
Phase rotation	Yes. with display of phase order in three-phase systems		
Storage of measurements	Yes		
Ambient temperature	23 °C ±3 K		
Relative humidity	45 % ; 75 %		
Protection rating	IP54		
RS232/USB port	Yes		
IEC 61010-1	600 V, Cat. III		
Power supply	Batteries (6 x AA)		
Weight	840 g (with batteries)		
Dimensions	211 x 108 x 60 mm		

CA 8220

COMPOSITION

P01160620: one CA 8220 instrument supplied with 6 fitted AA batteries, 1 red banana lead (straightstraight), 1 black banana lead (straight-straight), 2 x 4 mm test probes (1 red, 1 black), 2 crocodile clamps (1 red, 1 black), 1 optical USB cable and Power Analyzer Transfer software available for download.

TO ORDER

 CA 8220 analyser alone P01160620

ACCESSORIES

4 mm red and black test probes	P01295454Z
Red and black crocodile clips	P01295457Z
• 4 mm red and black banana/banana leads	P01295451Z
Pince MN93A BK clamp	P01120434
• MN93 BK clamp	P01120425
AmpFlex A193 450 mm BK	P01120526
AmpFlex A193 800 mm BK	P01120531
• PAC93 BK clamp	P01120079
• C193 BK clamp	P01120323





CA 1711 no-contact RPM sensor for measuring rotation speeds (6 to 120,000 RPM)

• E3N adapter	P01102081
E3N power supply	P01120047
• RPM sensor	P01102082
• Optical/USB cable	HX0056-Z
RS232/USB adapter	HX0055B
DataView® processing software	P01102095
• Carrying bag No 5	P01298049

YOUR DISTRIBUTOR



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