CHAUVIN ARNOUX
ENERGY

ENERIUM 300
Power Monitor

- Monitoring of compliance with the EN50160 standard
- Detection of voltage dips and surges
- Harmonic analysis
- Class 0.2s

Quality of LV and HV electrical networks

ENERIUM 300
Power Monitor

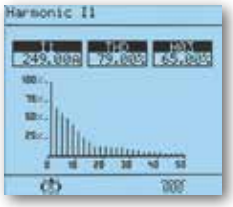
Specifications

Voltage inputs (AC)	
Primary VT: 100 V to 650 kV – Secondary VT: 100 V to 480 V	
Measurement range: 5 to 130 % of Vn for Vn = 57.7 / 230 V (ph-N) 5 to 130 % of Un for Un = 100 / 400 V (ph-ph)	
Overload: 130 % of 400 V (permanent) - 800 V (24 hours)	
Current inputs (AC)	
Primary CT: 1 A to 25,000 A – Secondary CT: 1 A or 5 A	
Measurement range: 1 % to 130 % of In for In = 5 A	
Overload: 250 A for 1 second (transient) – 6.5 A (permanent)	
Measurement accuracy	
Power and active energy: class 0.2s (IEC 62053-22) - class 0.2 (IEC 61557-12)	
Power and reactive energy: class 0.2 (IEC 61557-12) - class 2 (IEC 62053-23)	
Power and apparent energy: 0.5 % (IEC 61557-12)	
Voltage: 0.2 % – Current: 0.2 % – Frequency: ± 0.1 % (IEC 61557-12)	
Power factor: ± 0.05 counts (IEC 61557-12)	
RS485 output	
Protocol: Modbus in RTU or ASCII mode	
Speed: 2,400...115,200 bauds	
Ethernet output	
Protocol: Modbus TCP	
Speed (configurable): compatible with 10, 100 and 1000 base T networks	
Auxiliary power supply	
80... 265 Vac 50/60 Hz - 110... 375 Vdc - 19... 57 Vdc	
Consumption: < 0.1 VA	
Environment	
Operating temperature: -10 °C to +55 °C	
Operating humidity: 95 % at 40 °C	
Storage temperature: -25 °C to +70 °C	
Mechanical specifications	
Dimensions (L x H x D) : 144 x 144 x 55 mm	

Advanced functions

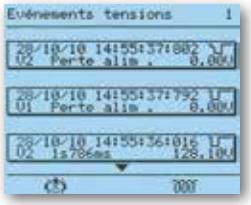
Harmonic analysis

- Measurement of THD per phase on U, I and In
- Spectral analysis up to 50th order per phase on V, U, I and In



Qualimetry

- Statistical analysis graphs as per EN50160



- Log of the last 1,024 events (dips, outages, voltage surges, current surges)
- Wave capture (V-U-I-In)

To order

ENERIUM 300 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

1 Frequency of network measured

0	50 / 60 Hz

2 Auxiliary power supply

0	80 to 265 Vac / 110 to 375 Vdc
1	19,2 to 58 Vdc

3 Communication

0	RS485
1	Ethernet

4 Metering (or On-Off) inputs

0	none
2	2 inputs
4	4 inputs
6	6 inputs
8	8 inputs

5 On-Off outputs

0	none
2	2 outputs
4	4 outputs
6	6 outputs
8	8 outputs

Also available in **ENERIUM 310** version without display

6 Analogue inputs

0	none
2	2 analogue inputs
4	4 analogue inputs
6	6 analogue inputs
8	8 analogue inputs

7 Analogue outputs

0	none
2	2 outputs
4	4 outputs

8 Accuracy class

5	0.5 s
2	0.2 s

Example: Enerium 300, frequency 50/60 Hz, auxiliary power supply 80 to 265 Vac, RS485 communication, 2 On-Off inputs, no On-Off output, no analogue input, no analogue output, class 0.2 s => order ENERIUM 300 01020002 • 1-0 • 2-0 • 3-0 • 4-2 • 5-0 • 6-0 • 7-0 • 8-2

Accessories

Optical head	P01330401
DIN-rail mounting kit	P01330360
690V / 400 resistive voltage adapter (for wind application)	P01330402
85 à 264 Vac/12 Vdc - 3,5 A (42W) power supply for On-Off input	ACCJ1004

E.view+

Software for configuring the power monitor, viewing all the electrical parameters and **processing the quantities covered by the EN50160 standard** by means of summary tables, histograms and load curves.

Ref. : **P01330610**

FRANCE
Energy
16, rue Georges Besse - Silic 44
92182 ANTONY Cedex
Tel: +33 1 75 60 10 30
Fax: +33 1 46 66 62 49
export@Energy.fr
www.Energy.com

UNITED KINGDOM
Chauvin Arnoux Ltd
Nelson Ct, Flagship Sq, Shaw Cross Business Pk
Dewsbury, West Yorkshire - WF12 7TH
Tel: +44 1924 460 494
Fax: +44 1924 455 328
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.com

MIDDLE EAST
Chauvin Arnoux Middle East
P.O. BOX 60-154
1241 2020 JAL EL DIB - LEBANON
Tel: +961 1 890 425
Fax: +961 1 890 424
camie@chauvin-arnoux.com
www.chauvin-arnoux.com

CHAUVIN ARNOUX GROUP