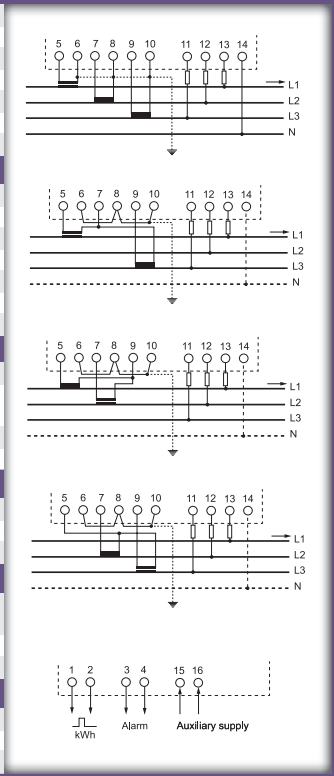
ADVANTAGES

- **Active energy accuracy: class 1 according to IEC 61036**
- **Automatic screens scrolling**
- **Animated bargraph for every values**
- **High-readability display**

TECHNICAL SPECIFICATIONS

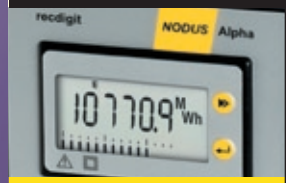
Voltage measurement inputs	
Measurement of V1, V2, V3, U12, U23, U31	
Range of measurement	from 20 to 576 Vac(Ph-Ph) max
Frequency	from 45 to 65 Hz
Burden	< 0.5 VA
Accuracy	± 0.5 %
Starting voltage	17.5 Vac (Ph-Ph)
Maximum overload	2 V max during 1s
Current measurement inputs	
Measurement of I1, I2, I3, I neutral, I1 max, I2 max, I3 max	
Range of measurement	from 500 mA to 6 A max
Frequency	from 45 to 65 Hz
Burden	< 0.5 VA
Accuracy	± 0.5 %
Starting current	10 mA
Maximum Overcurrent	20 I max during 0.5 s
Others measurements	
Active power accuracy	± (1 % P+0.1 % Sn)
Active energy accuracy	± 1 %
	Cl 1 according to IEC 61036
Frequency accuracy	± 0.1 Hz (45-65 Hz)
Hour meter accuracy	250 ppm
Auxiliary supply	
Alternative voltage	230/400 Vac ±20 %
Frequency	from 45 to 65 Hz
Burden	< 5 VA.
Outputs	
Alarm and pulse	Static relay
	0-230 Vac/325 Vdc 100 mA
Alarm (Pt, Imax, Imin, In)	contact NO or NC
Pulse	contact NO
Environmental conditions	
Operating temperature	from -10 to +55°C / 95 % HR
Storage temperature	from -25 to +70°C
Information storage	10 years at +25°C



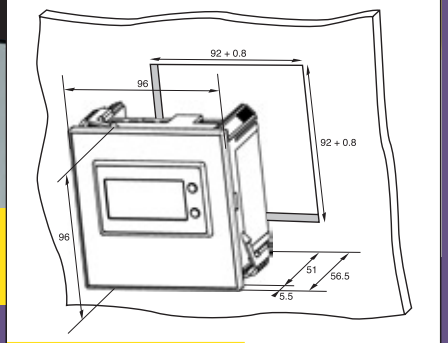
Mechanical specifications	
Material	polycarbonate
Insulation voltage/mass	5.55 kV (1 min)
	10.2 kV (1.2 µs / 50 µs)
Protection class	IP51 front face
Maximum cable cross section	6 mm^2
Terminal Fastening Torque	0.7 Nm ±10 % (6 mm^2)

TO ORDER

NODUS α



- Weight 340 g
- Fixing by clips



Reference P01 331101 Dimensions in mm

DISPLAY

***NODUS* α** gets a high-readability STN screen with viewing angles of 120° vertically and horizontally. It enables the parameters of your electrical installation to be displayed by an automatic scrolling mode every 4 seconds. You can choose the values you want to be visualized in the scrolling mode among the 18 proposed screens.

Examples of displays

MAXIMUM OF POWER DEMAND

***NODUS* α** measures the maximum of power demand and the maxima of intensity demand on 3 phases, **MAX** is also displayed. **RESET** indicates that the ***NODUS* α** is awaiting a possible reset instruction for the maximal displayed value.

PHASE TO PHASE VOLTAGE BETWEEN L1 AND L3

***NODUS* α** displays every electrical parameter not only in a numerical value form but also in an animated bargraph form. The numerical value of each measurement comes up directly in the appropriate unit (A, V, W and their multiples). Its bargraph displays from 0 to 130 % of the measurement. Higher than 130% the bargraph blinks.

(!) indicates that the alarm is active.

If the ***NODUS* α** is incorrectly connected, ⛒ displays.

NODUS α CONFIGURATION

In the SET mode, you can program the following parameters:

- transformer primary and secondary currents,
- transformer primary and secondary voltages,
- selection of the screens displayable for the automatic scrolling,
- weight and width of the pulse,
- integration time of maxima of power and currents demand,
- delay and type of contact of the alarm relay,
- Maximum alarm threshold for power, currents on the 3 phases and neutral current, minimum alarm threshold for currents on the 3 phases.

NODUS α

the power monitor with essential functions:

Measuring

3U (Ph-Ph), 3V (Ph-N), 3I, I neutral, P total, F and maximum of 3I and P average, with a hour meter.

Metering

of active energy: class 1 metering accuracy according to IEC 61036 and a configurable pulse output.

Monitoring

of a maximum on 3I, I neutral and P and a minimum on 3I, with a programmable alarm output.

On **www.enerdis.com**

Solutions for a best operation on your electrical networks.

NODUS

- Size 96x96

Multimeasure
Metering and energy management
Data transmission
Power quality
Monitoring of values

POWER

- Size 144x144

Low voltage current transformers necessary for wiring your power monitors

Your distributor

906 211 061 - Ed 02 - 04/2003 - Non-contractual characteristics - komako

POWER MEASUREMENT & CONTROL DIVISION OF CHAUVIN ARNOUX

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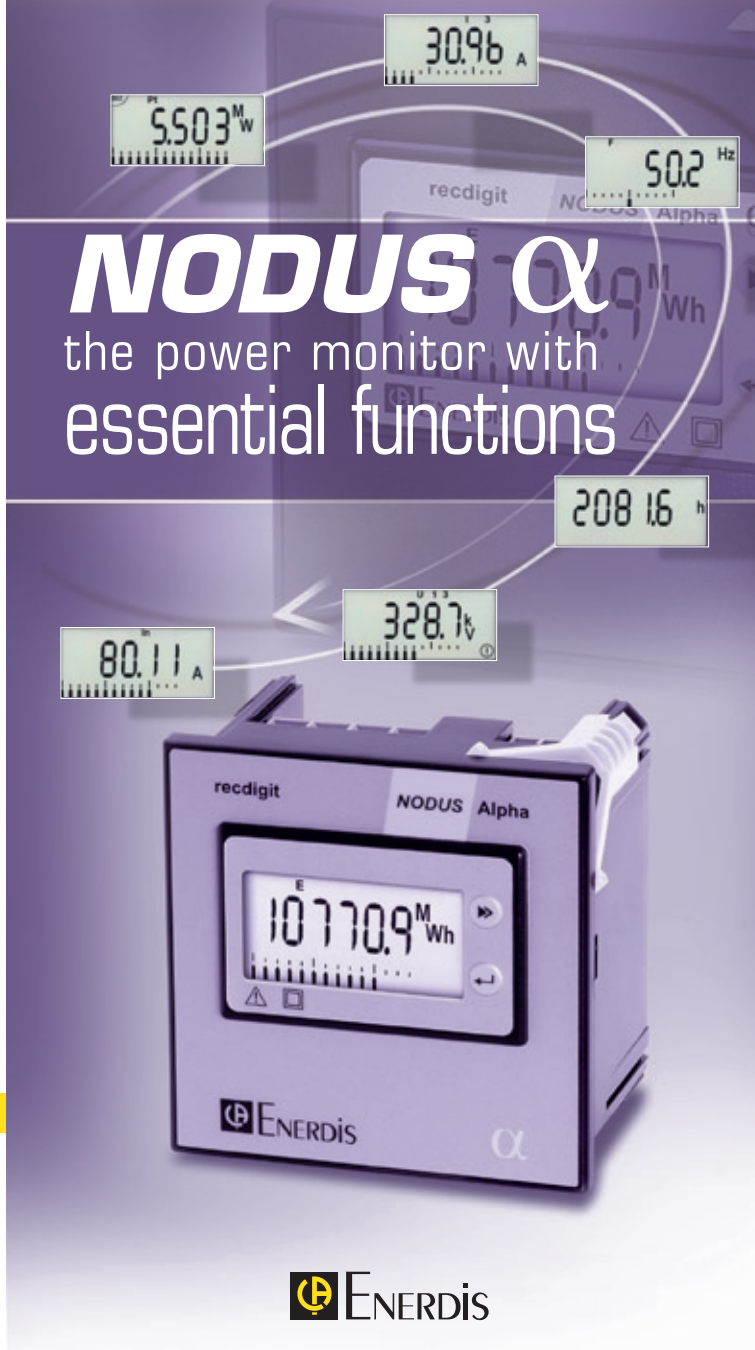
MULTI-FUNCTIONAL SOLUTION
FOR ELECTRICAL NETWORKS



NODUS α

the power monitor with
essential functions

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