



NEMO 96 EA

Network analyser geared for energy quality

Flush mounting network analyser for low, medium and high voltage

The **NEMO 96 EA** is more than an unit of measurement, it allows to control the quality of the network that it measures and to record the events that can happen. It will help you manage and guarantee the reliability and energy efficiency of your installation in order to minimize losses due to disturbances in the distribution networks.

NEMO 96 EA is supplied as standard with the RS485 Modbus RTU/TCP communication module.

NEMO 96 EA has an 8Mb internal memory for the recording of real time data (current, voltage, powers, frequency,...) and integrated data (energies). It can also save the energy

quality events (voltage holes, overvoltage, quick variations and interruptions of the voltages). It calculates the instantaneous flicker intensity.

The connection of **NEMO 96 EA** is via CT for single and three-phase network, 3 or 4 wires.

Its function is to correct and diagnose the insertion.

It can be fitted with up to 4 additional NEMO 96 modules, to add functions such as analogue outputs, pulse outputs, alarm outputs, I/O.

In order to simplify the reading of the datas, all the electrical and power quality values, are accessible via IDM Evo free software.

Multifunction metering with HIGH PERFORMANCE



ACCESSORIABILITY WITH STANDARD MODULES

NEMO 96 EA can be equipped with up to 4 additional modules, including those normally in the catalog for the NEMO 96 range.

ENERGY QUALITY DISPLAY

IDM EVO software can remotely view the power quality parameters of your network.



REMOTE CONFIGURATION

IDM EVO software in addition to the display function, the IDM EVO software also allows the complete configuration of the device and the connected modules.

PARAMETER DISPLAY AND THRESHOLDS AND ALARM MANAGEMENT

NEMO 96 EA is able to display all network parameters and setting alarm thresholds.



INTEGRATED MEMORY

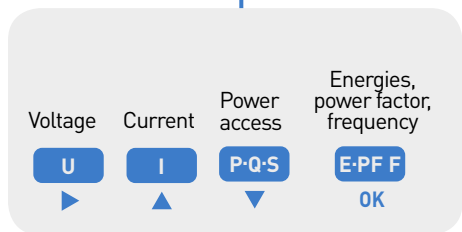
Thanks to **integrated memory**, is possible choose what parameters to store and keep track of for the future analysis.

REPLY OF DISPLAY

IDM EVO software lets you remotely replicate the parameters displayed on the display of the control panel and handle them through dedicated functions



COMMANDS



DISPLAY

- Phase and linked voltage
- Min. and max. phase voltage
- THDV
- Voltage harmonic analysis
- Voltage crest factor
- Phase angle between voltage
- Neutral and phase current
- Current demand and max. current demand
- Average current
- THDI
- Current crest factor
- Phase angle between current and voltage
- Active, reactive phase power
- Power demand and max. power demand
- Positive and negative active and reactive energy
- Apparent energy
- Power factor
- Frequency
- Run hour meter, count start with voltage or power present

CHARACTERISTICS

- Power quality functions:
- Harmonics (U&I) to 40th
 - Overvoltages
 - Network holes
 - Network interruptions
 - Rapid voltage change
 - Flickers
 - Memory embedded (8Mb)
 - RTC (Real time clock)

STANDARDS

Energy measuring

IEC 62053-22 class 0.5
IEC 61557-12 PMD

Monitoring of network quality

IEC 62586-1/2 PQIs class S
EN 61000-4-30 EN 61000-4-15

APPLICATION

Installation in the industrial and service sector for the network quality monitoring according to EN50160

IDM Evo

RS485



NEMO 96-EA

Cat. Nos.	Input (A)	Input (V)	Auxiliary supply	Output
MFQ96021	1+5	80...690	80...265 Va.c. 100...300 Vd.c.	up to 4 additional modules
MFQ96022	1+5	80...690	16...60 Vd.c.	up to 4 additional modules

* Can be fitted with the following modules:

- IF96002⁽¹⁾ RS232 communication
- IF96015⁽¹⁾ ethernet communication
- IF96003 2 pulse outputs
- IF96004 2 analogue outputs 0/4...20 mA
- IF96005 2 relay output
- IF96006 measurement of neutral current from CT
- IF96010 I/O 2 SPST-NO inputs, 2 SPST-NO outputs
- IF96011 I/O 2 inputs 12/24Vdc, 2 SPST-NO outputs
- IF96016 2 Pt100 inputs

NOTE (1): as an alternative to the communication module item IF96001 supplied as standard