

Nemo 96 HDLe

Nemo 96HDL evolution for low voltage application

November
December
2013

MAIN FEATURES



- Visualization of THD% of currents and voltages odd harmonics up to the 9th harmonic. Complete analysis up to the 50th harmonics, in percentage and absolute value, is made available on the communication bus
- Peak factor display for currents and voltages (up to 2)
- 1 pulse output (standard) either kWh+ or kWh- or kvarh+ or kvarh- related
- 1 built-in communication module RS485 (optional), Modbus RTU/TCP
- Additional plug-in communication module (RS485, RS232, Ethernet, Bacnet)
- Built-in algorithm for diagnosis and self fixing of wrong wiring
- Active energy accuracy in class 0.5 in compliance with the standard IEC/EN 61557-12



RS485 Modbus RTU

Other communication protocol

ONLY ON LINE USER'S MANUAL

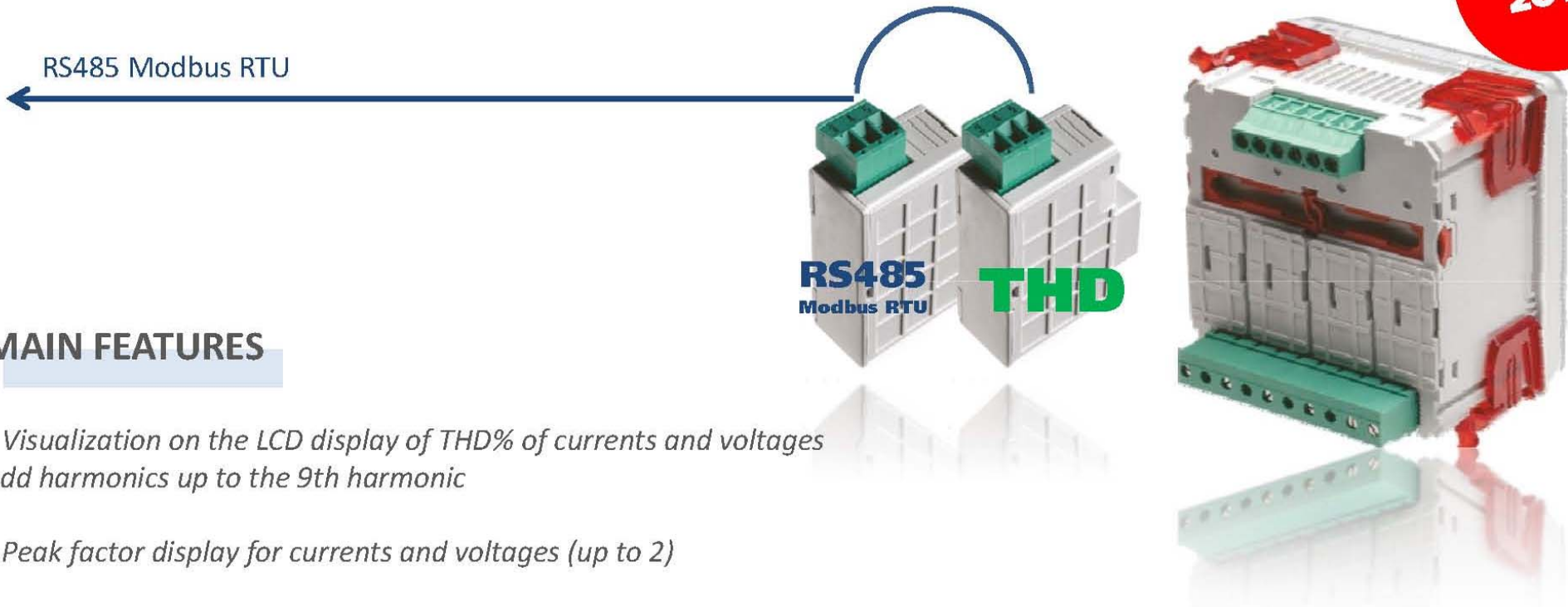
IME



Nemo MD - IF96017

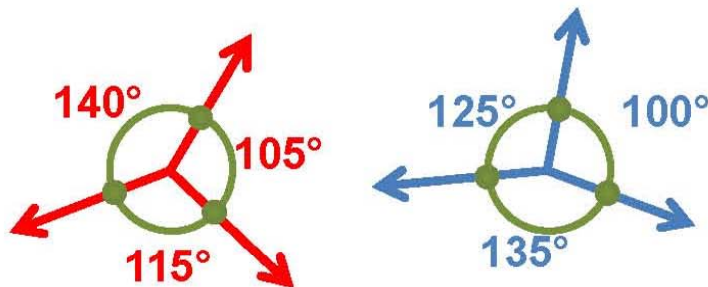
Plug-in module of Nemo 96HD+ for harmonic analysis (from firmware and hardware version V3.00 or higher)

October
2013



MAIN FEATURES

- Visualization on the LCD display of THD% of currents and voltages odd harmonics up to the 9th harmonic
- Peak factor display for currents and voltages (up to 2)
- The complete analysis of the waveform distortion up to the 50th harmonics, in percentage and absolute value, is available on the RS485 RTU /TCP Modbus
- Phase shift of voltage
- Phase shift of current



N.B. The communication module IF96001 must be installed

Nemo MD-IF96018+IFMTR01

October
2013

Wireless plug-in module for Nemo96HD+ (from firmware version V 2.33 or higher)



ADVANTAGES

No wiring costs for the communication bus

MAIN FEATURES

The system is made up of an 868 MHz transmitter-receiver plug-in radio module, complete with a power supply (IF96018) to be installed in two rear slots of Nemo 96HD+ as well as of an external device c/w Ethernet gate (IFMTR01) which receives the data transmitted by up to 255 Nemo 96HD+ making them available on the LAN



IME



DGP 36 P2k – DGQ72/96 P2k

*New programmable digital meter 2000 points (3 ½ digits)
Panel mounting, 72x36 – 72x72 – 96x96 formats, DC input*

ADVANTAGES

- *In field programming*
- *Improved stock handling thanks to the drastic reduction of the number of references (only 6 codes vs 194 codes of the previous version)*

MAIN FEATURES

- *Input in mV, mA, and V from shunt, transducers/transmitters. Up to 13 standard configurations are available*
- *Extended range auxiliary supply*
- *User friendly programming of visualization and decimal point*
- *Stickers of several engineering units are supplied with the instruments*



IMIE

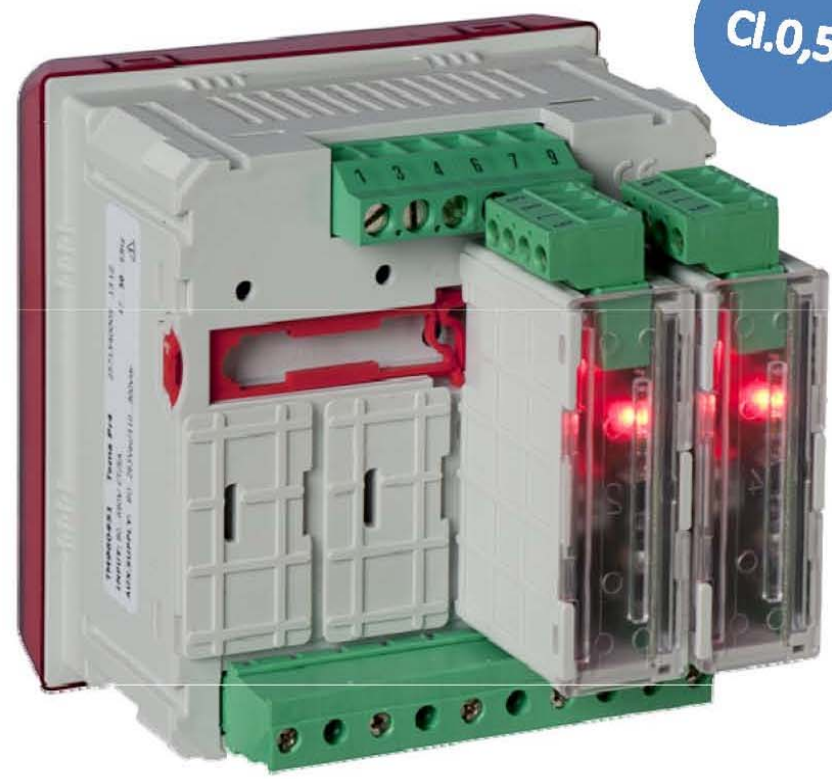
September
2013

Tema Pr4

Transducer with 4 analogue outputs for mono and three phases networks
Setting via RS232/USB communication

June
2013

Cl.0,5



ADVANTAGES

- Reduced overall dimension
- Easy wiring allows important installation cost savings
- Programming mode allows the greatest flexibility of use

MAIN FEATURES

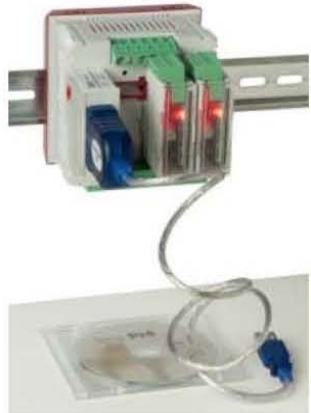
- 4 programmable and independent analogue outputs 0...20mA and 4...20mA proportional to the following parameters: V, A, mA, W, Wm, Var, cosPhi, Hz
- Response time $\leq 300ms$
- DIN RAIL mounted
- In compliance with EN 60688

IME



Tema Pr4

Transducer setting by software IDM, supplied together with the programming kit as a separate item (ATM96002)



RS232/USB



Monitor

TRANSDUCER MONITOR

V1 (Volt)	P1 (W)	0.00	P (w)
V2 (Volt)	P2 (W)	0.00	Q (VAr)
V3 (Volt)	P3 (W)	1.00	PF
I1 (A)	Q1 (VAr)	0.00	PF SECT
I2 (A)	Q2 (VAr)	0.00	freq (Hz)
I3 (A)	Q3 (VAr)	0.00	Pmed(W)
V12 (Volt)	Qmed(VAr)	0.00	I tot (A)
V23 (Volt)	T1 (°C)	0.000	WIRING
V13 (Volt)	T2 (°C)		Nominal Current

SLOT 0 SLOT 1 SLOT 2 SLOT 3

START STOP

POLLS FAILS

Setting

SETUP

SLOT 3
ANALOGIC OUT MOD d

Range: 4-20mA
Measure: P1
BS sign: -
BS Dec Point: XXX.X
BS k/M: k
BS Value: 1000 -100.0 k
ES sign: +
ES Dec Point: X.XXX
ES k/M: M
ES Value: 1000 +1.000 M
OUTPUT PIN: 6-7 3

CHANGE PARAMETERS SLOT 3

SLOT 2
ANALOGIC OUT MOD d

Range: 4-20mA
Measure: V1
BS sign: +
BS Dec Point: X.XXX
BS k/M: V
BS Value: 0 +0.000 V
ES sign: +
ES Dec Point: X.XXX
ES k/M: V
ES Value: 0 +0.000 V
OUTPUT PIN: 6-7 1

CHANGE PARAMETERS SLOT 2

SLOT 1

STANDARD PARAMETERS

WIRING: 3N3E
Average Time: 30 m
Base Current: 5A
CHANGE STANDARD
Current Transform: 1
CHANGE KTA
Voltage Transform: 1
CHANGE KTV

LOAD Initial Setup Parameters

SAVE All Setup Parameters

READ All Setup Parameters

SAVE NEW MODULES

TRA580-TRA812-TRA816

TRA58R and TRA812R enhanced version

July
2013

Cl.0,5



COMING
SOON

100A version

ADVANTAGES

- CTs installation without power supply break down
- New user friendly latching connection

MAIN FEATURES

- Primary currents from 250A up to 1500A, secondary 1A or 5A
- Arrows on both sides to prevent reverse currents due to wrong installation
- Faston and screw type secondary terminals, IP20 degree of protection as standard.
- Optional sealable terminal covers
- Insulated screw type mounting on the bus bar
- Screw type rear wall mounting
- Compliance with EN 60044-1

IME

Nemo D4-Le

November
2013

The well known Nemo D4-Le with a new look and additional features

MAIN FEATURES

- *A 4 modules new housing with sealable terminals*
- *4 functional touch buttons*
- *White LCD display for a better reading*
- *4 quadrant measures*
- *Total THD% display of current and voltage up to the 9th odd harmonic*
- *Complete analysis up to the 50th harmonics, in percentage and absolute value, is made available on the communication bus*
- *Active energy accuracy in class 0.5 in compliance with the standard IEC/EN 61557-12*
- *1 pulse output and 2 pulse input, optoelectronic voltage free contacts, for tariff switching and start/stop of partial energy count*
- *Built-in communication module RS485 RTU/TCP or Bacnet (optional)*
- *Built-in algorithm for diagnosis and wrong wiring self fixing*

