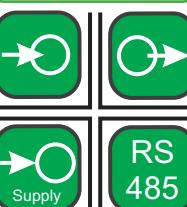


N43 RAIL MOUNTED POWER NETWORK METER

FEATURES:

INPUT:

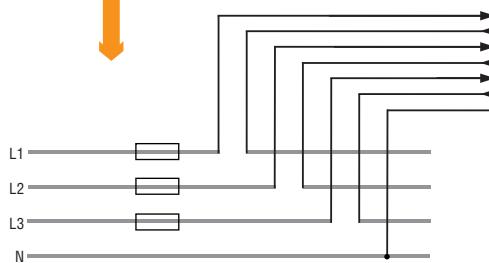
OUTPUTS:

GALVANIC ISOLATION:


Materm d.o.o.
tel: 02 608 90 10
info@materm.si
www.materm.si



- For direct (up to 63A) and indirect measurement, in 3 phase 4 wire/3 wire balanced and unbalanced systems.
- The measurement of: rms values of voltage and current, active, reactive and apparent power, active, reactive energy, power factors, frequency, THD.
- Indications considering values of programmed ratios.
- Backlit LCD display.
- Programmable display pages.
- 3 programmable alarm outputs and 1 pulse output in standard version.
- Pulse output for monitoring of 3-phase active energy
- Digital transmission to the master system through the RS-485 interface (MODBUS).
- USB for configuration by using free eCon software.
- Modern design allows for installation of the meter in modular switchgear in accordance with EN 62208 (meter has a width of 6 modules) on 35 mm rail.

EXAMPLE OF APPLICATION


Measurements, monitoring,
recording of network
parameters and energy.

MEASURED QUANTITIES AND MEASURING RANGES

Measured value	Measuring range	L1	L2	L3	Σ	Basic error**
Current In 1A/5A	0.002...1.20 A or kA * 0.010...6.00 A or kA * 0.10...76.0A~	•	•	•		$\pm 0.5\%$
Voltage L-N	2.80 ...70.0 V or kV* 10.0 ... 276 V~ 14.0 ... 348 V~	•	•	•		$\pm 0.5\%$
Voltage L-L	5.00 ... 120 V or kV* 20.0 ... 480 V~ 25.0 ... 600 V~	•	•	•		$\pm 1\%$
Frequency	47.0 ... 63.0 Hz				•	$\pm 0.5\%$
Active power /import or export/	0.00 ... 999 W, kW or MW	•	•	•	•	$\pm 1\%$
Reactive power /capacitive or inductive indication/	0.00 ... 999 VAR, kVar or MVAr	•	•	•	•	$\pm 1\%$
Apparent power	0.00 ... 999 VA, kVA or MVA	•	•	•	•	$\pm 1\%$
Active energy /import or export/	0.0 ... 999999.9 kWh or MWh				•	$\pm 1\%$
Reactive energy /capacitive or inductive indication/	0.0 ... 999999.9 kVArh or MVarh				•	$\pm 1\%$
Power factor PF	-1 ... 0 ... 1	•	•	•	•	$\pm 1\%$
Tangent ϕ	+1.2 ... 1 ... 1.2	•	•	•	•	$\pm 1\%$

* depending on set current ratio:

- tr_U ratio (ratio of the voltage transformer: 0.1...4000.0)

- tr_I ratio (ratio of the current transformer: 1...10000)

** calculated for the nominal range In, Un

OUTPUTS

Kind of output	
Relay output	• 3x programmable relay output, normally open voltageless contacts, load capacity 250 V~/0.5 A~
Pulse output	• 1 x pulse output, OC type, passive (for monitoring of active energy)

SEE ALSO:

Free eCon program
for programming
LUMEL's products.



ND20 - power
network meter.



P43 - three-phase
transducer of power
network parameters.

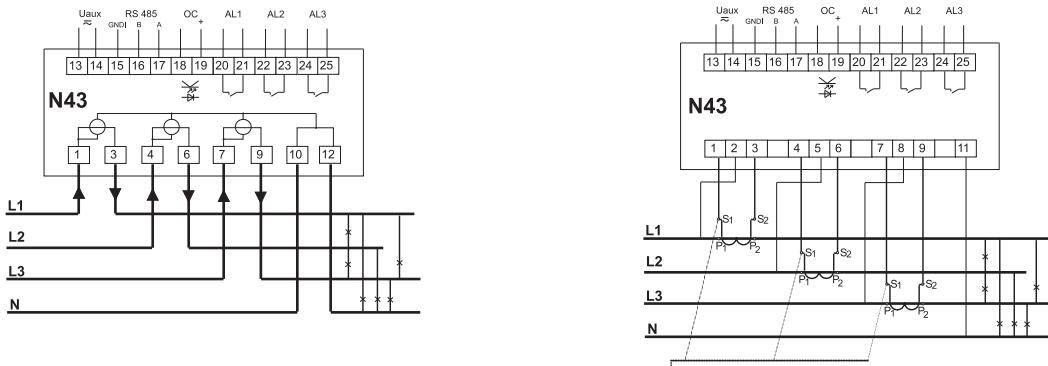


Fig. 1. Meter connection diagrams.

ORDERING

RAIL-MOUNTED NETWORK METER N43 -					
Current input In:	X	X	X	XX	X
1 A/5 A (X/1; X/5)					
63 A					
Voltage input (phase/ phase-to-phase) Un:					
3 x 57.7/100 V					
3 x 230/400 V					
3 x 290/500 V					
Auxiliary supply:					
85...253 V a.c., 90...300 V d.c.					
20...40 V a.c., 20...60 V d.c.					
Version:					
standard					
custom-made*					
Language:					
Polish					
English					
other*					
Acceptance tests:					
without extra quality requirements					
with an extra quality inspection certificate					
acc. to customer's request*					

* - after agreeing with the manufacturer

EXAMPLE OF ORDER:

The code N43 - 2 21 00 E 0 means:

- N43 - meter of network parameters of N43 type
- 2 - current input: 63 A
- 2 - input voltage (phase/phase-to-phase) Un = 3 x 230 V / 400 V
- 1 - auxiliary supply: 85...253 V a.c., 90...300 V d.c.
- 00 - standard version
- E - all descriptions and user's manual in English
- 0 - without extra quality requirements.

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For more information
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products please visit
our website:
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