

DIGITAL INTERFACE

Interface type	Transmission protocol	Mode	Baud rate
RS-485	MODBUS RTU	8N2, 8E1, 8O1, 8N1	4.8; 9.6; 19.2; 38.4 kbit/s

EXTERNAL FEATURES

Readout field	LCD 3.5" screen, specialized, monochromatic with backlight	
Weight	< 0.3 kg	
Overall dimensions	96 × 96 × 77 mm	panel cut-out: 92.5 ^{+0.6} × 92.5 ^{+0.6} mm
Protection grade (acc. to EN 60529)	from frontal side: IP65	from terminal side: IP20

RATED OPERATING CONDITIONS

Supply voltage	85...253 V a.c., 90...300 V d.c.	
Temperature	ambient: -25...23...55°C	storage: -30...70°C
Relative humidity	25...95%	
Operating position	any	
External magnetic field	0...40...400 A/m	
Short duration overload (1 s)	voltage input: 2Un (max. 1000 V)	current input: 10 In
Power consumption	- in the supply circuit ≤ 6 VA, - in the voltage and current circuits ≤ 0.05 VA	

SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to 61326-1 Class A: Industrial env.
	noise emissions	acc. to EN 61000-6-4
Isolation between circuits	basic	acc. to EN 61010-1
Installation category	III	
Pollution level	2	
Maximal phase-to-earth voltage	- for supply and measuring circuits: 300 V - for other circuits: 50 V	
Altitude a.s.l.	< 2000m	

ELECTRIC CONNECTIONS

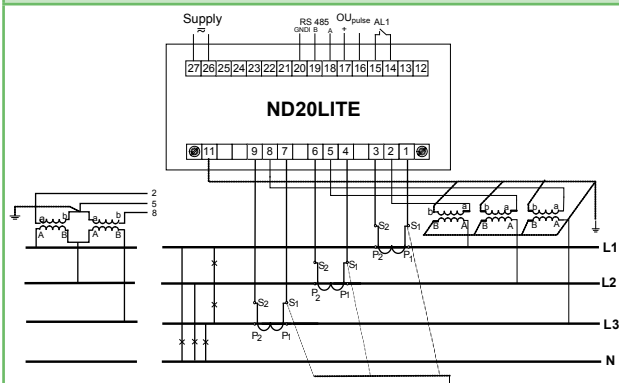


Fig 1. Meter connection diagrams in a 4-wire network.

Connections:

- direct, semi-indirect and indirect one-phase measurement,
- direct measurement in a 3-wire network,
- semi-indirect measurement in a 3-wire network,
- indirect measurement with the use of 3 current transformers and 2 or 3 voltage transformers in a 3-wire network,
- direct measurement in a 4-wire network,
- semi-indirect measurement in a 4-wire network,
- indirect measurement with the use of 3 current transformers and 2 or 3 voltage transformers in a 4-wire network

ORDERING

ND20LITE -	X	X	X	XX	X	X
Current input In:						
1 / 5 A			2			
Voltage input (phase/ phase-to-phase) Un:						
3 x 57.7/100 V, 3 x 69.3/120 V, 3 x 230/400 V			2			
Supply voltage:						
85...253 V a.c., 90...300 V d.c.				1		
Version:						
standard					00	
custom-made*						XX
Language:						
Polish/English						M
other*						X
Acceptance tests:						
with an extra quality inspection certificate						1
with calibration certificate						2
acc. to customer's request						X

* - after agreeing with the manufacturer

EXAMPLE OF ORDER:

The code **ND20LITE 22100M1** means:
ND20LITE - meter of network parameters of ND20LITE type
2 - programmable input current ranges: 1 A or 5 A
2 - input voltage (phase/phase-to-phase) Un = 3 x 57.7/100 V, 3 x 69.3/120 V, 3 x 230/400 V
1 - supply voltage: 85...253 V a.c./ 90...300 V d.c.
00 - standard version
M - Polish/English language version
1 - with an extra quality inspection certificate.

SEE ALSO:



Free eCon program for programming LUMEL's products. Available on our internet website.



Current transformers.



P43 - three-phase transducer of power network parameters.

For more information about LUMEL's products please visit our website:
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