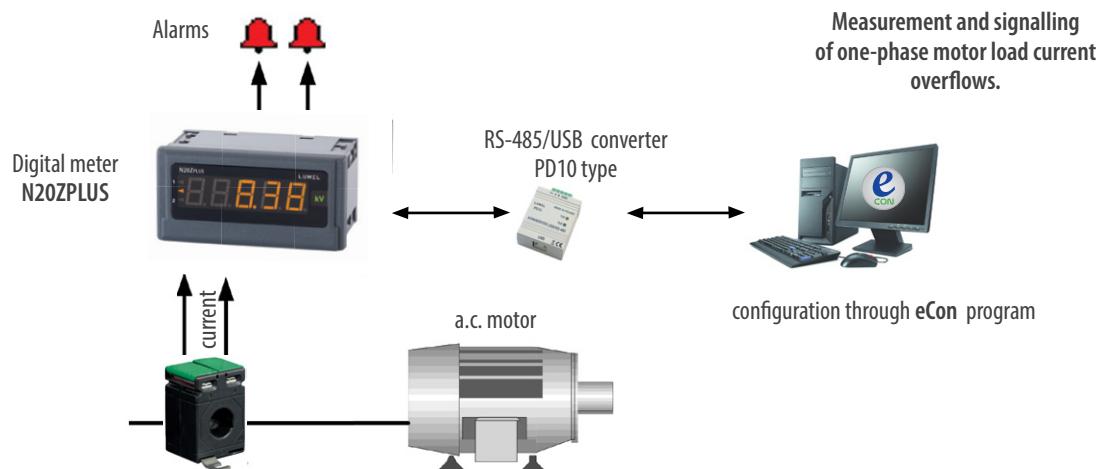




N20ZPLUS - DIGITAL PANEL METER WITH RS-485

- Measurement of voltage, a.c. current or frequency,
- Three-colour LED display (5 digits, 14 mm high).
- Digital output RS-485 - Modbus RTU protocol.
- Two alarm outputs of OC type.
- Programmable parameters through RS-485 interface using the free eCon software:
 - recounting of indications (individual characteristic),
 - two alarms of OC type operating in 6 working modes,
 - kind of measured signal: a.c. or a.c. + d.c. (True RMS),
 - display colour programmable in three intervals,
 - precision of displayed results (decimal point),
 - thresholds of displayed overflows,
 - highlight of the unit,
 - measurement averaging time.

EXAMPLE OF APPLICATION



FEATURES	INPUTS	OUTPUTS	GALVANIC ISOLATION

TECHNICAL DATA

INPUTS

Input type	Measuring range	Parametrs	Basic error
Voltage input	<u>1...100...120 V</u> <u>2.5...250...300 V</u> <u>4...400...480 V</u>	Input resistance >2 MΩ	± (0.5% of range+ 1 digit)
Current input	<u>0.01...1...1.2 A</u> <u>0.05...5...6 A</u>	Input resistance: 50 mΩ ± 10% Input resistance: 10 mΩ ± 10%	± (0.5% of range+ 1 digit)
Frequency (in the range of voltages 24...480 V)	20...500 Hz	Input resistance: >2 MΩ	± (0.02% of range+ 1 digit)

TECHNICAL DATA

OUTPUTS

Output type	Features		
Alarm outputs	• 2 alarm outputs of OC type		

DIGITAL INTERFACE

Interface type	Transmission protocol	Modes	Baudrate
RS-485	MODBUS RTU	8N2, 8E1, 8O1, 8N1	4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbit/s

EXTERNAL FEATURES

Readout field	5 digit LED display - indication range: -19999...99999 digit height: 14 mm	Three-colour display (changes of colour depend on the displayed value): red, green, orange.
Weight	< 0.25 kg	
Overall dimensions	96 x 48 x 64 mm	panel cut-out: 92 ^{+0.6} x 45 ^{+0.6} mm
Protection grade (acc. to EN 60529)	from frontal side: IP65	from terminal side: IP10

RATED OPERATING CONDITIONS

Supply	85...253 V a.c. / d.c., 20...40 V a.c. / 20...60 V d.c.	Power consumption < 6 VA
Temperature	ambient: -10...+55°C	storage: -25...+85°C
Relative humidity	< 95%	condensation inadmissible
Operating position	any	

SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Safety requirements		acc. to EN 61010-1

CONNECTION DIAGRAMS

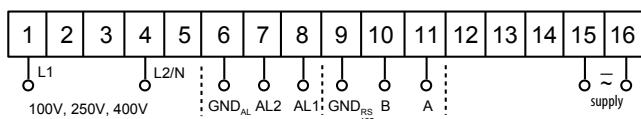


Fig. 1 Electrical connections of the N20ZPLUS meter with the measurement of voltage and frequency.

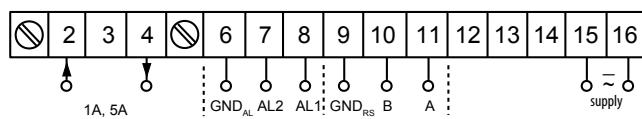


Fig. 2 Electrical connections of the N20Z meter with the measurement of current.

ORDERING

TABLE 1. ORDERING CODE:

	N20ZPLUS -	X	X	XX	XX	X	X
Input:							
100 V	1						
250 V	2						
400 V	3						
1 A	4						
5 A	5						
frequency 20...500 Hz	6						
Supply:							
85...253 V a.c./d.c.	1						
20...40 V a.c./20...60 V d.c.	2						
Unit:							
unit code number acc. to table 2		XX					
Version:							
standard			00				
custom-made			XX				
Language:							
Polish				P			
English				E			
Acceptance test:							
without additional quality requirements				0			
with an extra quality inspection certificate				1			
with an extra calibration certificate				2			
acc.to customer's request*				X			

* only after agreeing with the manufacturer

TABLE 2. CODES OF HIGHLIGHTED UNIT:

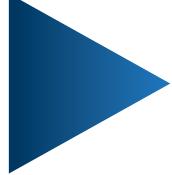
Code	Unit	Code	Unit	Code	Unit
00	without unit	17	µm	34	bar
01	V	18	mm	35	rad
02	A	19	cm	36	Ω
03	mV	20	m	37	kΩ
04	kV	21	km	38	%
05	MV	22	l	39	°
06	mA	23	l/s	40	obr
07	kA	24	l/h	41	rps
08	MA	25	ms	42	rpm
09	°C	26	s	43	rph
10	°F	27	h	44	m/h
11	K	28	N	45	km/h
12	Hz	29	kN	46	imp
13	kHz	30	Pa		
14	Ah	31	hPa		
15	kAh	32	kPa		
16	m/s	33	MPa		
				XX	on order ¹⁾

1) -only after agreeing with the manufacturer

ORDERING EXAMPLE:

The Code N20ZPLUS - 3 1 01 00 P 0 - means: N20ZPLUS meter with voltage input on 400V, supply 85...253 V a.c., standard version, user's manual in English, without additional quality requirements. Unit, V"

N20ZPLUS-19_en



LUMEL
EVERYTHING COUNTS

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