

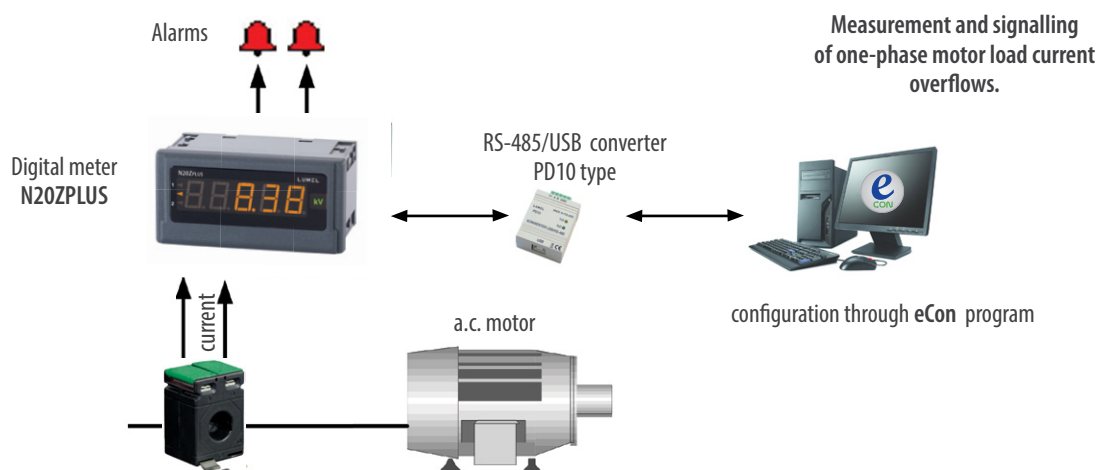


N20ZPLUS - DIGITAL PANEL METER WITH RS-485

- 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



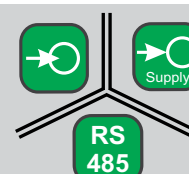
INPUTS



OUTPUTS



GALVANIC ISOLATION



TECHNICAL DATA

INPUTS

| Input type | Measuring range | Parameters | Basic error |
|--|---|--|-----------------------------|
| Voltage input | 1...100...120 V 2.5...250...300 V 4...400...480 V | Input resistance >2 MΩ | ± (0.5% of range+ 1 digit) |
| Current input | 0.01...1...1.2 A 0.05...5...6 A | 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: IP 10 |

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...23...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

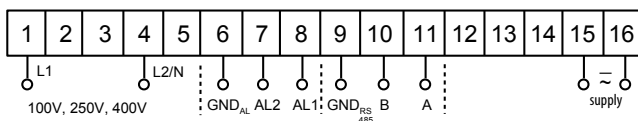


Fig. 1 Electrical connections of the N20ZPLUS meter with the measurement of voltage and frequency.

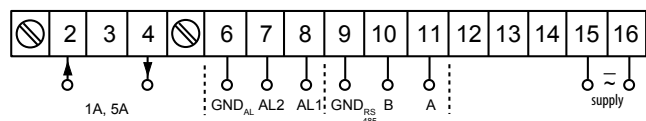


Fig. 2 Electrical connections of the N20Z meter with the measurement of current.

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:

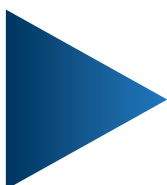
| Code | Unit | Code | Unit | Code | Unit |
|------|--------------|------|------|------|------------------------|
| 00 | without unit | 17 | µm | 34 | bar |
| 01 | V | 18 | mm | 35 | rad |
| 02 | A | 19 | cm | 36 | Ω |
| 03 | mV | 20 | m | 37 | kΩ |
| 04 | kV | 21 | km | 38 | % |
| 05 | MV | 22 | l | 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 | XX | on order ¹⁾ |
| 16 | m/s | 33 | MPa | | |

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, V¹⁾

N20ZPLUS-19_en



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