EUROTEC
TECNOLOGIE IMPIANTISTICHE - AUTOMAZIONE - TELECONTROLLO

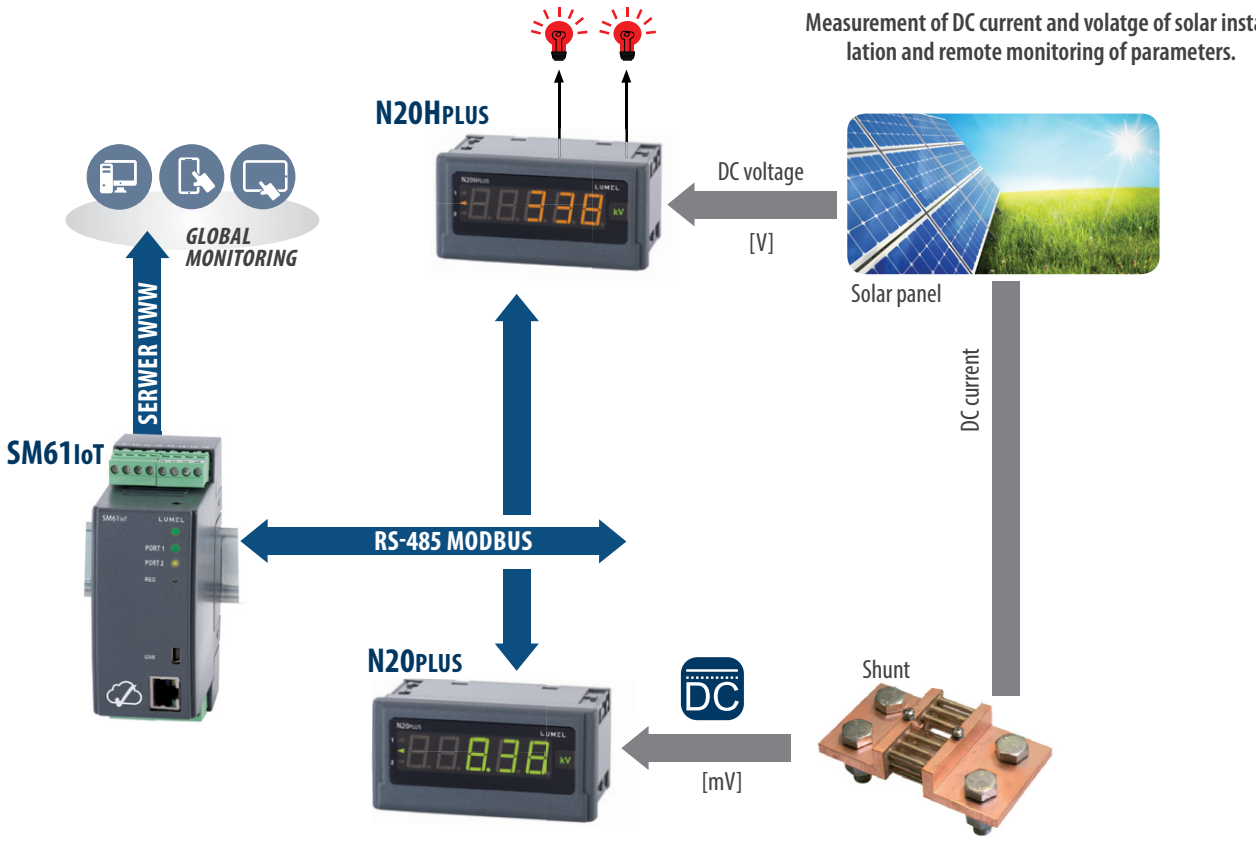
LUMEL
EVERYTHING COUNTS



N20HPLUS
- DIGITAL PANEL METER WITH RS-485

- Measurement of d.c. voltage.
- 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:
  - two alarms of OC type operating in 6 working modes,
  - display colour programmable in three intervals,
  - thresholds of displayed overflows,
  - highlight of the unit,
  - measurement averaging time.
- Conversion of indications based on individual characteristics.
- Power supply: 85 ... 253 V AC / DC or 20 ... 40 V AC / DC.
- IP65 housing protection degree.

EXAMPLE OF APPLICATION



FEATURES

MOD BUS · eCon · IP65 · Ind · three-colour display

INPUTS

-100 A ... 100 A · -400 A ... 400 A

OUTPUTS

2x

GALVANIC ISOLATION

Supply · RS 485

N20HPLUS - DIGITAL PANEL METER WITH RS-485

LUMEL
EVERYTHING COUNTS

TECHNICAL DATA

INPUTS

Input type	Measuring range	Parametrs	Basic error
Voltage input	-1 V...0 V...100 V...120 V -120 V...100 V...100 V...120 V -1 V...0 V...400 V...480 V -480 V...400 V...400 V...480 V	Input resistance: >2 MΩ	± (0.2% of range + 1 digit)

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, 801, 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

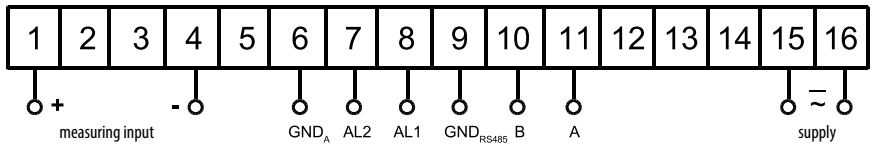
RATED OPERATING CONDITIONS

Supply	85...253 V a.c. (45...65 Hz) or d.c., 20...40 V a.c. (45...65 Hz) / 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

DESCRITPION OF TERMINAL STRIP



ORDERING

TABLE 1. ORDERING CODE:

	N20HPLUS	X	X	XX	XX	X	X
Input:							
0...100 V		1					
± 100 V		2					
0...400 V		3					
± 400 V		4					
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	XX	on order[1]
14	Ah	31	hPa		
15	kAh	32	kPa		
16	m/s	33	MPa		

[1] -only after agreeing with the manufacturer

ORDERING EXAMPLE:

The Code N20HPLUS_410100E0 - means: N20HPLUS meter with voltage input on ±400 V, supply 85... 253 V a.c., standard version, user's manual in English, without aditional quality requirements. Unit„V"

Via Lirone 60/i, Castel Maggiore (BO) 40013
e-mail: info@eurotecsrl.com Website: www.eurotecsrl.com
Tel: +39 051/6321595 C.F. 04103780377 P.I. 01596581205