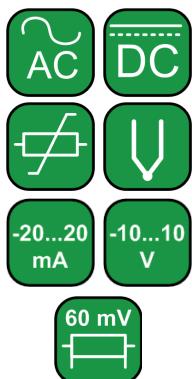
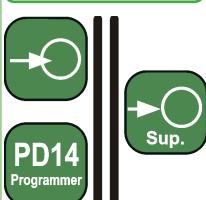
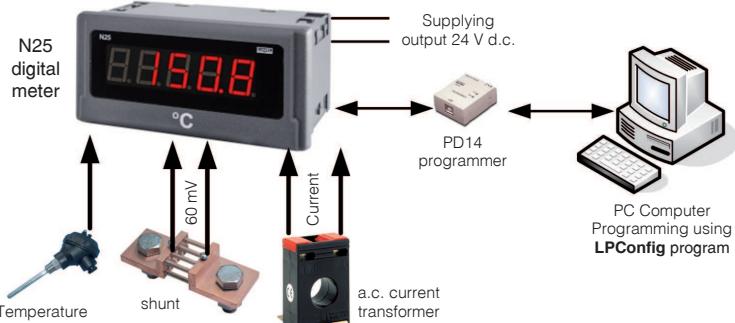


N25 DIGITAL PANEL METERS

FEATURES:

- Destined for measurement of d.c. voltage or d.c. current, temperature through Pt100 resistance thermometers, J, K thermocouples, a.c. voltage and a.c. current.
- 5 LED digit displays with 14 mm digit high.
- Parameters programmable by PD14 programmer:
 - precision of displayed results (decimal point),
 - measurement averaging time,
 - recounting of indications (individual characteristic),
 - automatic or manual compensation: cold junction temperature for measurement with thermocouples or wire resistance for measurement with Pt100 (N25T).

INPUTS:**OUTPUTS:****GALVANIC ISOLATION:****EXAMPLE OF APPLICATION**

Measurement and display:
 - temperature
 - analog signals
 - d.c. current and voltage
 - rms current and voltage.

INPUTS

Type	Measuring ranges		Parameters	Overloads	Errors			
N25S	-11 mV...-10 mV...60 mV...66 mV		Input resistance >1 MΩ	Short duration overload (1s): - voltage input: 10 Un - current input: 5 In	Basic error: $\pm (0.2\% \text{ of range} + 1 \text{ digit})$ Additional error from ambient temperature changes: $\pm (50\% \text{ of basic error}/10K)$			
	-66 mV...-60 mV...60 mV...66 mV							
	-0.5 V...0 V...10 V...11 V							
	-11 V...-10 V...10 V...11 V		Input resistance 10 Ω ±1%	Sustained overload: 110% Un, 110% In				
	-1 mA...0 mA...20 mA...22 mA							
N25T	3.6 mA...4 mA...20 mA...22 mA		Input resistance 10 Ω ±1%					
	Pt100	-50°C...150°C	Current flowing through the sensor: < 300 μA. Resistance of wires connecting RTD with the meter: - max 5 Ω (per wire) for automatic compensation - max 10 Ω (per wire) for manual compensation		Basic error: $\pm (0.2\% \text{ of range} + 1 \text{ digit})$ Additional errors: <ul style="list-style-type: none"> compensation of cold junction temperature changes: $\pm 0.2\% \text{ of range}$, from ambient temperature changes: $\pm (50\% \text{ of basic error}/10K)$. 			
		-50°C...400°C						
	Thermo-couple J	-50°C...1200°C						
	Thermo-couple K	-50°C...1370°C						
N25Z	1...100...120 V a.c.		Input resistance > 2 MΩ	Short term overload (1s): voltage input: 2 Un (< 1000V), current input: 10 In Sustained overload: 150% Un (for 400 V input), 120% (for remaining inputs), 120% In	Basic error: <ul style="list-style-type: none"> voltage and current: $\pm (0.5\% \text{ of range} + 1 \text{ digit})$ in frequency range 20...500 Hz frequency: $\pm (0.02\% \text{ of range} + 1 \text{ digit})$ Additional error from ambient temperature changes: $\pm (50\% \text{ of basic error}/10K)$			
	2.5...250...300 V a.c.							
	4...400...600 V a.c.							
	20...500 Hz (in voltage range: 24...480 V)							
	0.01...1...1.2 A a.c.							
N25H	0.05...5...6 A a.c.		Input resistance > 2 MΩ	Short term overload (1s): voltage input: 2 Un (< 1000V), current input: 10 In Sustained overload: 150% Un (for ± 400 V input), 120% (for remaining inputs), 120% In	Basic error: $\pm (0.2\% \text{ of range} + 1 \text{ digit})$ Additional error from ambient temperature changes: $\pm (50\% \text{ of basic error}/10K)$			
	0...100...110 V d.c.							
	0...250...275 V d.c.							
	-120...-100...100...120 V d.c.							
	-300...-250...250...300 V d.c.							
OUTPUTS								
For N25S and N25T		Output for supply external transducers		24 V ± 5%, 30 mA				

Export department:

English: +48 68 32 95

302 / 321 / 276 / 386 / 233

German: +48 68 32 95 305

French: +48 68 32 95 304

Russian: +48 68 32 95 321

Fax: +48 68 32 54 091

e-mail: export@lumel.com.pl

LUMEL S.A.

ul. Sulechowska 1

65-022 Zielona Góra

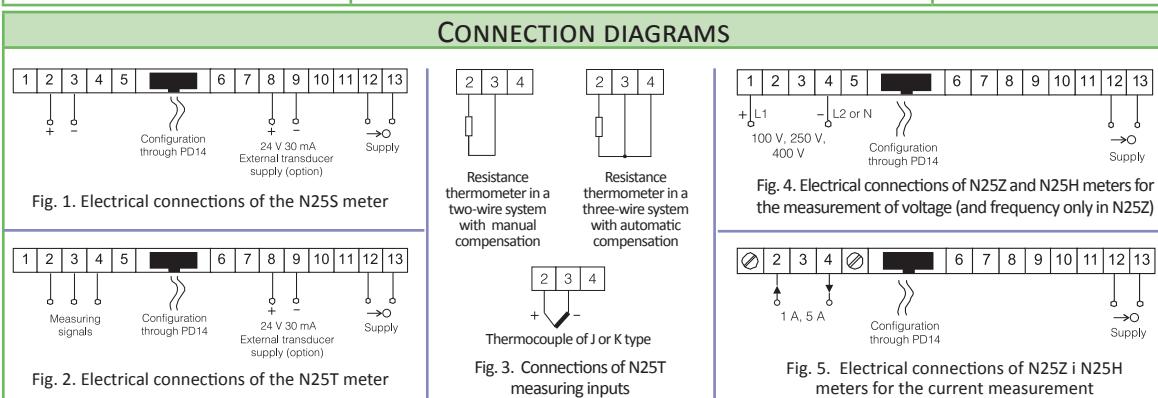
POLAND

WWW.LUMEL.COM.PL

EXTERNAL FEATURES		
Weight	< 0.25 kg	
Overall dimensions	96 x 48 x 64 mm with terminals	
Protection grade (acc. to EN 60529)	ensured by the housing: IP65	from the terminal side: IP 20
Display	5-digit LED display, 14 mm high, red colour	indication range: -19999...99999

RATED OPERATING CONDITIONS		
Supply voltage	230 V ± 10% a.c. (45...65 Hz); 110 V ± 10% a.c. (45...65 Hz) 24 V ± 10% a.c. (45...65 Hz); 85...253 V a.c. (40...400 Hz) or d.c.; 20...40 V a.c. (40...400 Hz) or d.c.	input power consumption: 6 VA
Temperature	ambient: -10...23...55 °C	storage: -25...85 °C
Relative humidity	≤ 95%	condensation inadmissible
Operating position	any	
Preheating time	30 min	
Averaging time	≥ 0.5 s	1 second default set

SAFETY AND COMPATIBILITY REQUIREMENTS		
Electromagnetic compatibility	noise immunity noise emissions	acc. to EN 61000-6-2 acc. to EN 61000-6-4
Isolation between circuits	basic	
Pollution grade	2	
Installation category	III (for the 400 V option - category II)	acc. to EN 61010-1
Maximal phase-to-earth operating voltage	for supply circuits: 300 V, for measuring circuits: 600 V - cat. II for other circuits: 50 V	
Altitude above sea level	< 2000 m	



ORDERING							
TABLE 1. ORDERING CODES:							
N25 -	X	X	X	XX	XX	X	X
Input kind:							
standard: voltage, current	S						
temperature: thermocouples, resistance thermometers	T						
a.c. signals	Z						
d.c. signals: high voltage and high current	H						
Input: see table 2			X				
Supply:							
230 V a.c.			1				
110 V a.c.			2				
24 V a.c.			3				
85...253 V a.c./d.c. with supply output 24 V/30 mA*			4				
20...40 V a.c./d.c. with supply output 24 V/30 mA*			5				
Unit: see table 3			XX				
Version:				00			
standard							
non-standard settings				NS			
custom-made**				XX			
Language:					P		
Polish					E		
English					X		
other**							
Acceptance tests:							
without extra requirements			0				
with an extra quality inspection certificate			1				
acc. to customer's request**			X				

* - the output is only in N25S and N25T meters
** - after agreeing with the manufacturer

SEE ALSO:



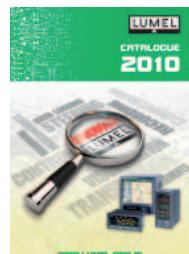
Free LPConfig software for easy programming of LUMEL's products. Available on our website



PD14 programmer - unit for programming LUMEL's products, with USB connection, LPCon compatible.



N30 digital panel meters with three-colour display.



For more information about LUMEL's products please visit our website: www.lumel.com.pl

Export department:
 English: +48 68 32 95 302 / 321 / 276 / 386 / 233
 German: +48 68 32 95 305
 French: +48 68 32 95 304
 Russian: +48 68 32 95 321
 Fax: +48 68 32 54 091
 e-mail: export@lumel.com.pl
 LUMEL S.A.
 ul. Sulechowska 1
 65-022 Zielona Góra
 POLAND
WWW.LUMEL.COM.PL