

N24 DIGITAL PANEL METERS

FEATURES:

IP65 Program LPConfig
PD14 Linear char. Programmer



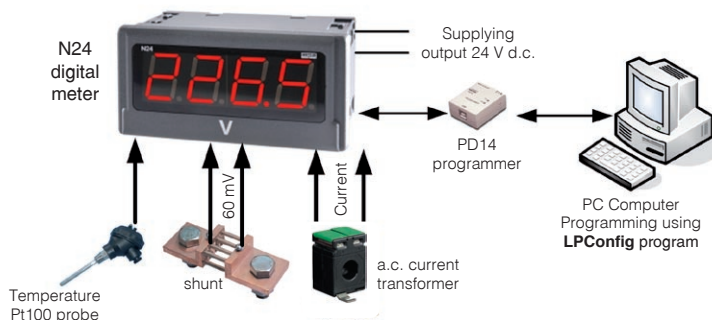
- Destined for measurement of d.c. voltage or d.c. current, temperature through Pt100 resistance thermometers, J, K thermocouples, a.c. voltage and a.c. current.
- 4 LED digit displays with 20 mm digit high.
- Parameters programmable by PD14 programmer:
 - precision of displayed results (decimal point),
 - 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 (N24T).

INPUTS:

AC **DC**

 -20...20 mA -10...10 V
 60 mV

EXAMPLE OF APPLICATION



Measurement and display:

- temperature
- analog signals
- d.c. current and voltage
- rms current and voltage.

OUTPUTS:



GALVANIC ISOLATION:

PD14 Sup. Programmer

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INPUTS

Type	Measuring ranges	Parameters	Overloads	Errors	
N24S	-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: ± (0.2% of range + 1 digit) Additional error from ambient temperature changes: ± (50% 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				
	-1 mA...0 mA...20 mA...22 mA				
N24T	3.6 mA...4 mA...20 mA...22 mA	Input resistance 10 Ω ±1%	Sustained overload: 110% Un, 110% In	Basic error: ± (0.2% of range + 1 digit) Additional errors: • compensation of cold junction temperature changes: ± 0.2% of range, • from ambient temperature changes: ± (50% of basic error/10K).	
	Pt100	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			
	-50°C...150°C				
	-50°C...400°C				
	Thermo-couple J	-50°C...1200°C			
N24Z	Thermo-couple K	-50°C...1370°C	Short duration overload (1s) Input of sensors: 30 V	Basic error: ± (0.2% of range + 1 digit) Additional error from ambient temperature changes: ± (50% of basic error/10K)	
	1...100...120 V a.c.	Input resistance > 2 MΩ			Short term overload (1s): voltage input: 2 Un (< 1000V), current input: 10 In
	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.	Input resistance 10 mΩ ±10%				
N24H	0.05...5...6 A a.c.	Input resistance 2 mΩ ±10%	Sustained overload: 150% Un (for ± 400 V input), 120% (for remaining inputs), 120% In	Basic error: ± (0.2% of range + 1 digit) Additional error from ambient temperature changes: ± (50% of basic error/10K)	
	0...100...110 V d.c.	Input resistance > 2 MΩ			Short term overload (1s): voltage input: 2 Un (< 1000V), current input: 10 In
	0...250...275 V d.c.				
	-120...-100...100...120 V d.c.				
	-300...-250...250...300 V d.c.				
-600...-400...400...600 V d.c.					
N24H	-1.2...-1...1...1.2 A d.c.	Input resistance 10 mΩ ±10%	Sustained overload: 150% Un (for ± 400 V input), 120% (for remaining inputs), 120% In	Basic error: ± (0.2% of range + 1 digit) Additional error from ambient temperature changes: ± (50% of basic error/10K)	
	-6...-5...5...6 A d.c.	Input resistance 2 mΩ ±10%			

OUTPUTS

For N24S and N24T	Output for supply external transducers	24 V ± 5%, 30 mA
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