

## N24

Universal input digital panel meter for measurement of d.c. voltage or d.c. current, temperature from Pt100 sensors and J, K thermocouples, a.c. voltage and a.c. current.

N24H31XX

4 Digit Panel Meter,  $\pm 400V$  dc input, 240V ac



- Universal input (Programmable)
- Wide voltage, AC/DC control
- 4 Digit LED display

## PRODUCT DESCRIPTION

Please refer to the image below for ordering information.

\*\*Part numbers have changed from ending with E0 to M0, please be advised any part numbers below that end in E0 may say M0 in the datasheet. The product is the same.\*\*

ORDERING									
TABLE 1. ORDERING CODES:									
	N24	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			
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:									
standard							00		
non-standard settings							NS		
custom-made**							XX		
Language:									
Multilingual (polis-english)								M	
other**								X	
Acceptance tests:									
with test certificate									1
acc. to customer's request**									X
<p>* -The output is only in N24S and N24T meters</p> <p>** - After agreeing with the manufacturer</p>									

TABLE 2. INPUT SIGNALS				
Nr	N24S	N24T	N24Z	N24H
1	0...20 mA	Pt100: -50...150°C	100 V a.c.	$\pm 100$ V d.c.
2	4...20 mA	Pt100: -50...400°C	250 V a.c.	$\pm 250$ V d.c.
3	0...60 mV	Thermocouple J	400 V a.c.	$\pm 400$ V d.c.
4	0...10 V	Thermocouple K	1 A a.c.	$\pm 1$ A d.c.
5	$\pm 60$ mV		5 A a.c.	$\pm 5$ A d.c.
6	$\pm 10$ V		20...500 Hz	0...100 V d.c.
7				0...250 V d.c.

TABLE 3. CODES OF PRINTED UNITS:					
Code	Unit	Code	Unit	Code	Unit
00	without unit	06	mA	12	bar
01	°C	07	kA	13	kPa
02	%	08	kV	14	MPa
03	A	09	Hz		
04	V	10	turns	XX	on order
05	mV	11	rpm		

TABLE 4. EXAMPLE OF NON-STANDARD SETTINGS:	
Parameter	Range/Value
Decimal point	000.0 for I, U
Averaging time	1 s
Upper measurement overflow	9999
Lower measurement overflow	-1999
Individual characteristic	enabled
Parameter a of the individual characteristic	5
Parameter b of the individual characteristic	0

**Order example 1 :**  
The code N24Z-2 1 04 00 M 1 means  
N24Z - digital meter for a.c. signals  
2 - input: 250 V a.c.  
1 - supply: 230 V a.c.  
04 - unit: V  
00 - standard version  
M - multilingual  
1 - with test certificate

**Order example 2 :**  
The code N24S-1 4 02 NS M 1 means:  
N24S - digital meter for d.c. signals  
1 - input: 0...20mA  
4 - supply: 85...253 V a.c. with supply output: 24V/30mA  
02 - unit: %  
NS - non-standard settings, display range: 0...100.0  
M - multilingual  
1 - with test certificate

## TECHNICAL DATA

Additional functions	Rescaling
Digit height	20 mm
Dimensions	96 x 48 x 64 mm Panel cut-out: 92+0,6 45+0,6 mm
Display	Yes

<b>Input type</b>	±400V dc
<b>IP class</b>	IP65
<b>Mounting</b>	Panel mount
<b>Number of digits</b>	4
<b>Supply voltage</b>	240 V ac
<b>Temperature operational max</b>	55 °C
<b>Temperature operational min</b>	-10 °C
<b>Weight</b>	0.25 kg