

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.

N24Z510300E0
DIGITAL METER 5A AC 230V 'A'



- 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 |

* -The output is only in N24S and N24T meters

** - After agreeing with the manufacturer

TABLE 2. INPUT SIGNALS

| Nr | N24S | N24T | N24Z | N24H |
|----|-----------|--------------------|-------------|----------------|
| 1 | 0...20 mA | Pt100: -50...150°C | 100 V a.c. | ±100 V d.c. |
| 2 | 4...20 mA | Pt100: -50...400°C | 250 V a.c. | ±250 V d.c. |
| 3 | 0...60 mV | Thermocouple J | 400 V a.c. | ±400 V d.c. |
| 4 | 0...10 V | Thermocouple K | 1 A a.c. | ±1 A d.c. |
| 5 | ±60 mV | | 5 A a.c. | ±5 A d.c. |
| 6 | ±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 |

| | |
|------------------------------------|-------------|
| Input type | 5A ac |
| IP class | IP65 |
| Mounting | Panel mount |
| Number of digits | 4 |
| Supply voltage | 240 V ac |
| Temperature operational max | 55 °C |
| Temperature operational min | -10 °C |
| Weight | 0.25 kg |