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# N25

Universal input digital 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.

N25S45XX
5 Digit Panel Meter, 0-10V input, 20-40V ac/dc, 24V output




- Universal input (Programmable)
- Wide voltage, AC/DC control
- 5 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 will say M0 in the datasheet. The product is the same.**

**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:** | | | | | | | |
| standard | | | | | 00 | | |
| non-standard settings | | | | | NS | | |
| custom-made** | | | | | XX | | |
| **Language:** | | | | | | | |
| Multilingual (polish-english) | | | | | | M | |
| other** | | | | | | X | |
| **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

**TABLE 2. INPUT SIGNALS**

| Nr | N25S | N25T | N25Z | N25H |
|---|---|---|---|---|
| 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 | XX | on order |
| 04 | V | 10 | turns | | |
| 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 | 99999 |
| Lower measurement overflow | -19999 |
| Individual characteristic | enabled |
| Parameter **a** of the individual characteristic | 5 |
| Parameter **b** of the individual characteristic | 0 |

**Order example 1 :**
The code **N25Z-2 1 04 00 E 0** means:
**N25Z** - 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 version
**0** - without extra requirements

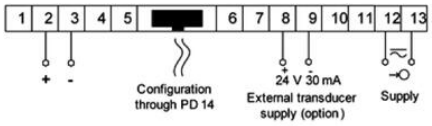
**Order example 2 :**
The code **N25S-1 4 02 E 1** means:
**N25S** - digital meter for d.c. signal
**1** - input: 0...20mA
**4** - supply: 85...253 V a.c.
**02** - unit: %
**NS** - non-standard settings, display range: 0...100.0
**M** - Multilingual version
**1** - with an extra quality inspection certificate

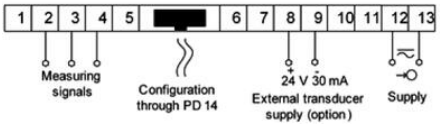
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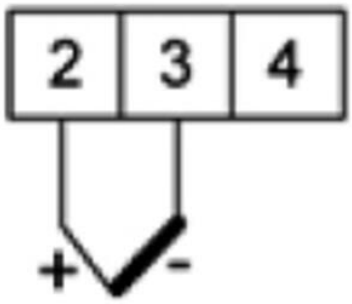
# TECHNICAL DATA

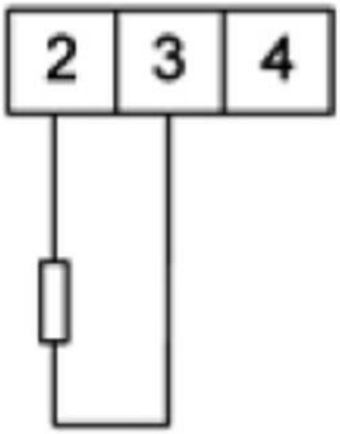
| | |
|---|---|
| **Digit height** | 14 mm |
| **IP class** | IP65 |
| **Number of digits** | 5 |
| **Supply voltage** | 20-40V ac/dc |

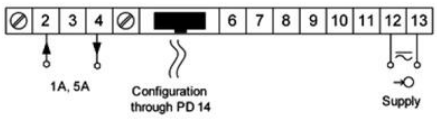
| | |
|---|---|
| **Temperature operational max** | 55 °C |
| **Temperature operational min** | -10 °C |

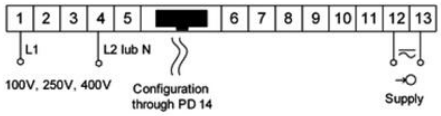


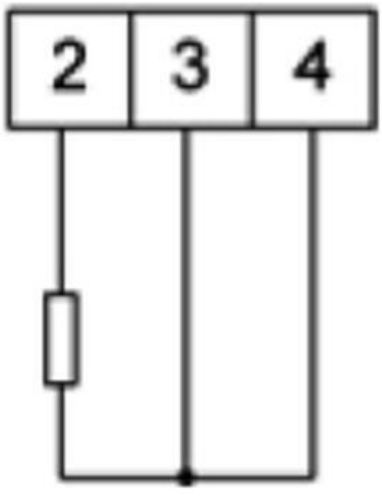



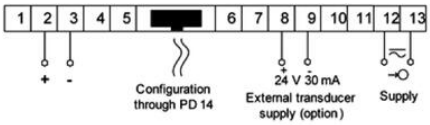



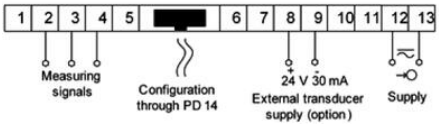



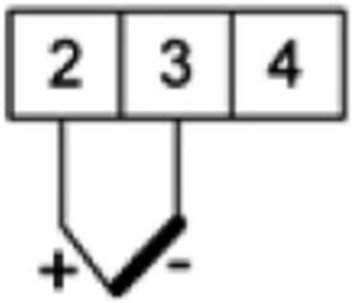



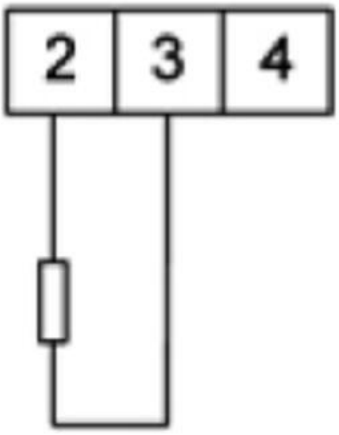



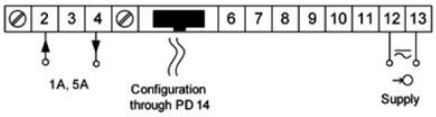



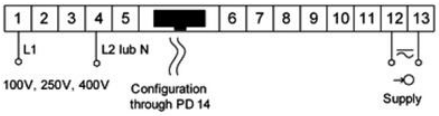



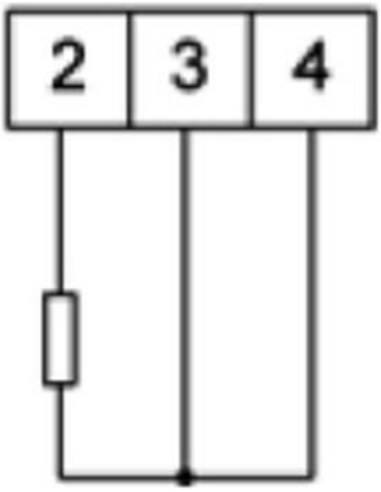




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1A, 5A
Configuration
through PD 14
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