

| EXTERNAL FEATURES |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Weight |  | $<0.25 \mathrm{~kg}$ |  |  |
| Overall dimensions |  | $96 \times 48 \times 64 \mathrm{~mm}$ 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 | $\begin{aligned} & 230 \mathrm{~V} \pm 10 \% \text { a.c. }(45 \ldots . .65 \mathrm{~Hz}) ; 110 \mathrm{~V} \pm 10 \% \text { a.c. }(45 \ldots 65 \mathrm{~Hz}) \\ & 24 \mathrm{~V} \pm 10 \% \text { a.c. }(45 \ldots 65 \mathrm{~Hz}) ; \\ & 85 . . .253 \mathrm{~V} \text { a.c. }(40 \ldots . .400 \mathrm{~Hz}) \text { or d.c.; } 20 . . .40 \mathrm{~V} \text { a.c. }(40 . . .400 \mathrm{~Hz}) \text { or d.c. } \end{aligned}$ |  |  | input power consumption: 6 VA |
| Temperature | ambient: -10...23... $55^{\circ} \mathrm{C}$ |  |  | storage: -25... $85^{\circ} \mathrm{C}$ |
| Relative humidity | $\leq 95 \%$ |  |  | condensation inadmissible |
| Operating position | any |  |  |  |
| Preheating time | 30 min |  |  |  |
| Averaging time | $\geq 0.5$ s |  |  | 1 second default set |

SAFETY AND COMPATIBILITY REQUIREMENTS

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

## CONNECTION DIAGRAMS



Fig. 1. Electrical connections of the N25S meter


Fig. 2. Electrical connections of the N25T meter


Resistance thermometer in a two-wire system
with manual compensation


Resistance thermometer in a three-wire system compensation

Thermocouple of J or K type
Fig. 3. Connections of N25T measuring inputs


Fig. 5. Electrical connections of N 25 Z i N25H meters for the current measurement

## Ordering

| Table 1. Ordering codes: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N25 - | $\mathbf{x} \mathbf{X}$ | X | XX | Xx | X | X |
| Input kind: |  |  |  |  |  |  |
| standard: voltage, current S |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| a.c. signalsz |  |  |  |  |  |  |
| d.c. signals: high voltage and high current |  |  |  |  |  |  |
| Input: <br> see table 2 |  |  |  |  |  |  |
| Supply: |  |  |  |  |  |  |
| 230 V a.c. 1 |  |  |  |  |  |  |
| 110 V a.c. 2 |  |  |  |  |  |  |
| 24 V a.c. 3 |  |  |  |  |  |  |
| $85 . . .253 \mathrm{~V}$ a.c./d.c. with supply output $24 \mathrm{~V} / 30 \mathrm{~mA}^{*}$ |  |  |  |  |  |  |
| $20 . . .40 \mathrm{~V}$ a.c./d.c. with supply output $24 \mathrm{~V} / 30 \mathrm{~mA}^{*}$ |  |  |  |  |  |  |
| Unit: |  |  |  |  |  |  |
| Version: |  |  |  |  |  |  |
| standard 00 |  |  |  |  |  |  |
| non-standard settings NS |  |  |  |  |  |  |
| custom-made** ${ }^{\text {** }}$ XX |  |  |  |  |  |  |
| Language: |  |  |  |  |  |  |
| Polish |  |  |  |  |  |  |
| English |  |  |  |  |  |  |
| other** |  |  |  |  |  |  |
| Acceptance tests: |  |  |  |  |  |  |
| without extra requirements 0 |  |  |  |  |  |  |
| with an extra quality inspection certificate |  |  |  |  |  |  |
| 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 | N 25 H |
| 1 | $0 . . .20 \mathrm{~mA}$ | Pt100: -50...150 ${ }^{\circ} \mathrm{C}$ | 100 V a.c. | $\pm 100 \mathrm{~V}$ d.c. |
| 2 | $4 . . .20 \mathrm{~mA}$ | Pt100: -50...400 ${ }^{\circ} \mathrm{C}$ | 250 V a.c. | $\pm 250 \mathrm{~V}$ d.c. |
| 3 | $0 . . .60 \mathrm{mV}$ | Thermocouple J | 400 V a.c. | $\pm 400 \mathrm{~V}$ d.c. |
| 4 | $0 . .10 \mathrm{~V}$ | Thermocouple K | 1 A a.c. | $\pm 1$ A d.c. |
| 5 | $\pm 60 \mathrm{mV}$ |  | 5 A a.c. | $\pm 5$ A d.c. |
| 6 | $\pm 10 \mathrm{~V}$ |  | $20 . . .500 \mathrm{~Hz}$ | $0 . .100 \mathrm{~V}$ d.c. |
| 7 |  |  |  | $0 . . .250 \mathrm{~V}$ d.c. |


| TABLE 3. CODES OF PRINTED UNITS: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Code | Unit | Code | Unit | Code | Unit |
| 00 | without unit | 06 | mA | 12 | bar |
| 01 | ${ }^{\circ} \mathrm{C}$ | 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 | 99999 |
| Lower measurement overflow | -19999 |
| Individual characteristic | enabled |
| Parameter a of the individual characteristic | 5 |
| Parameter $\mathbf{b}$ of the individual characteristic | 0 |

## Order example 1 :

The code N25Z-2 10400 E 0 means
$\mathrm{N} 25 Z$ - digital meter for a.c. signals
2 - input: 250 V a.c.
1 - supply: 230 V a.c. 04 - unit: V
00 - standard version
E - English language
$\mathbf{0}$ - without extra requirement

Order example 2 :
The code N25S-1 402 E 1 means:
N25S - digital meter for d.c. signal
1 - input: $0 \ldots 20 \mathrm{~mA}$
4 - supply: 85 ... 253 V a.c.
02 - unit: \%
NS - non-standard settings, display range. 0...100.0

E-English languge
1 - with an extra quality inspection certificate

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