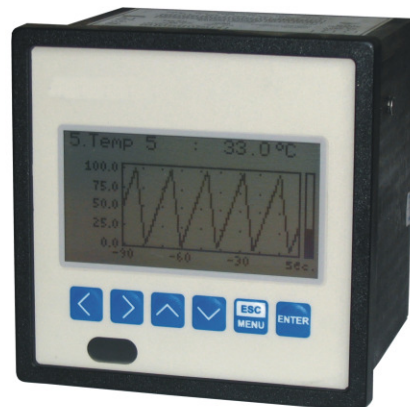**BD|SIMEX**
a division of BD|SENSORS

PAD-99T

• **multi-channel indicator with graphic display**

• **up to 8 inputs Pt100, Pt500, Pt1000**

• **2 electronic relay outputs (optoMOS)**

• **power supply output 24V DC / 50 mA**

• **RS-485 / Modbus RTU**

The PAD-99T indicator is intended for measuring and presentation of temperature values from 8 measuring channels. Each channel can be individually designated (described) with any measuring unit. The LCD graphical display allows for visualization of the values from all 8 channels simultaneously. A significant advantage is possibility of viewing the trends in each measuring channel as the graphs for the last 12 seconds or about 1,5 minutes. Device is equipped in electronic relay outputs that can be used to control external devices. There are icons on the screen signalling the status of the outputs.

- simultaneous display of values from 8 measuring channels,
- viewing the trends in each of 8 measuring channels,
- any text description possible: name and units,
- data transfer to the master system via RS-485,
- password protected,
- programmable indication filtration.

Examplary pin assignment

AIN1 - AIN8: Pt100/500/1000 inputs
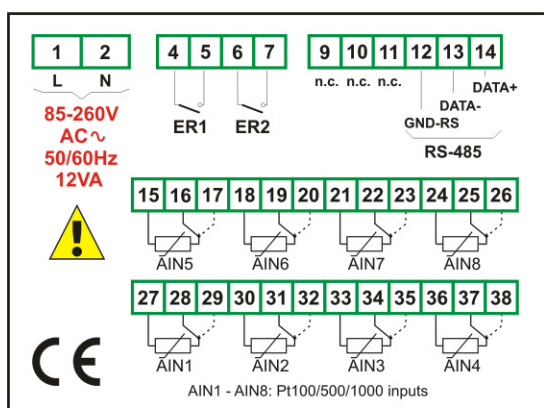
Ordering

PAD-99T-X328-1-X-XX5-N1

options:
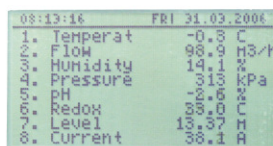**00** : no options
01 : IP 65

power supply:
3 : 24V AC/DC
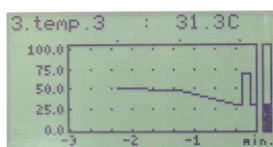**4** : 85...260V AC/DC

number of channels:
2 : 2 x RTD (Pt100, Pt500, Pt1000)
4 : 4 x RTD (Pt100, Pt500, Pt1000)
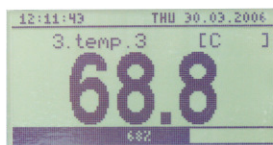**8** : 8 x RTD (Pt100, Pt500, Pt1000)

An example of what the display looks like

8-channel view displayed at the same time

the history of the process in time

the current value of the measurement signal
The height of the digits: 18 mm

Technical data

Power supply: 19...50V DC; 16...35V AC or 85...260V AC/DC
Power consumption: typical 7 VA; max. 12 VA
Display: with backlighting, graphic LCD, 128 x 64 points
Measuring inputs: 2, 4 or 8 inputs Pt100, PT500, Pt1000, automatic recognition of 2 and 3-conductor connection
Digital outputs: 2 electronic relays, NO type (ER1, ER2) with max. load 24V AC (35V DC) / 200 mA, overload protection
Measuring range: -100...600°C
Accuracy (25 °C): ± 0,1 % FSO
Tolerance band (0...50°C): max. 0,25 % FSO
Resolution: 0,1°C
Resistance compensation of connecting conductors: 0...20 Ω at any conductor
Transducer power supply output: 24V DC ±5% / max. 50 mA, stabilized, not insulated from measuring inputs
Communication interface: RS-485, galvanically separated
Transmission protocol: MODBUS RTU
Transmission speed: 1200...115200 bit/s
Operating temperature: 0...50°C
Storage temperature: -10...70°C
Protection class: IP 65 (front side when an additional frame is installed); IP 40 (front side); IP 42 (when transparent door with security key type STD-99 is installed, see: accessories); IP 20 (case and connection clips)
Case: board
Case material: NORYL - GFN2S E1
Case dimensions: 96 x 96 x 100 mm
Panel cut-out dimensions: 90,5 x 90,5 mm
Board thickness: max. 5 mm

Accessories

Transparent door with moulded frame acc. to DIN 43700, lockable with security key.

Door and frame are made by injection moulding thus assuring an exact fit, an optimal choice of a material which is very strong and with no risk of corrosion; perfect seal-protective system IP 42 provided by all-round soft rubber sealing the moulding; door does not swing in or out sideways on opening; door-frame and front-frame can be exchanged.

V.01.2010