BD|SIMEX
a division of BD|SENSORS

PAR-99X

- **Multichannel data recorder**
- **up to 8 inputs 4…20 mA / 0…10V, Pt 100, thermocouple**
- **graphic LCD, with backlight**
- **2 electronic relay outputs**
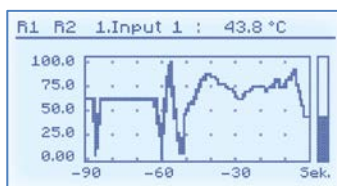- **RS-485 / Modbus RTU**

Display Modes

Chart view	Single channel view	Channel list	Main menu

Properties

The data logger PAR-99X is designed to record and display current values as well as to present technological parameters in the form of charts. The instrument can be equipped with 1,4 or 8 temperature or analog inputs. The internal data memory of 8MB is sufficient for about 3 million data records. If a USB stick is connected, the recording time can be extended significantly without the need for data transfer to the PC. A digital signal input enables the triggering of the recording process. The device is equipped with two freely configurable switching outputs. An individual alphanumeric description is available for each channel. The multilingual menu, supported by text descriptions, makes the configuration process very easy. The sensor supply output enables the care of connected transmitters. Through the interface RS-485, the device can be connected to the process control system.

- USB host & USB device for data / configuration transfer
- Digital input 24V DC (version with analog inputs)
- Switching outputs as individual and collective alarm
- display brightness, contrast and filter adjustable
- including software for data/configuration transfer
- Password protection

Technical data

Power supply voltage: 19...50V DC; 16...35V AC oder 85...260V AC/DC
Power consumption: typical 7 VA; max. 12 VA
Display: graphic LCD, 128 x 64 points, with backlight
Measuring inputs: 1, 4 or 8 (with common ground)
Analogical: 0/4…20 mA, 0/1…5 V, 0/2…10 V
RTD: PT100/500/1000 (2-/3-conductor connection)
TC: Type K, S, J, T, N, R, B, E, 0…60/75/100/150 mV
Measuring range:
Analogical: ± 9999 (+decimal point)
RTD: -100…600°C (resolution 0,1°C)
TC: -200…1370°C (K), -50…1768°C (S, R), -210…1200°C (J), -200…400°C (T), -200…1300°C (N), 250…1820°C (B),-200…1000°C(E)
Digital input: 1x 24V DC
Output: 2 electrical relays, max. 24V AC (35V DC) / 200mA
Sensor supply output: 24 V DC ± 5%, max. 200 mA
(not separated from measuring inputs,only for analog inputs)
Communication interface: USB Host Port, USB Device, RS-485 Modbus RTU, 1200...115200bit/s, (galvanicallyseperated)
Mempory capacity: 8 MB (above 3 million data recordings)
Type of protection:
USB rear: IP 65 (front foil), IP 20 (housing and connectors)
USB front: IP 40 (front foil, with protection cover), IP 54 (with additional front door), IP 20 (housing and connectors);
Optional:IP 65 front frame for sealing to panel cut-out
Operation temp.: 0...50°C (optional: -20…50°C)
Storage temp.: -10...70°C (optional: -20…70°C)
Housing: front panel 96 x 96 x 100 mm (material: NORYL - GFN2S E1)

Ordering code

PAR-99X-W-XX28-5X-X-0X5-N1

number and type of inputs:
18 : 1 x U/I
48 : 4 x U/I
88 : 8 x U/I
1T : 1 x RTD/TC
4T : 4 x RTD/TC
8T : 8 x RTD/TC

USB-interface:
1 : USB Host front
2 : USB Host rear

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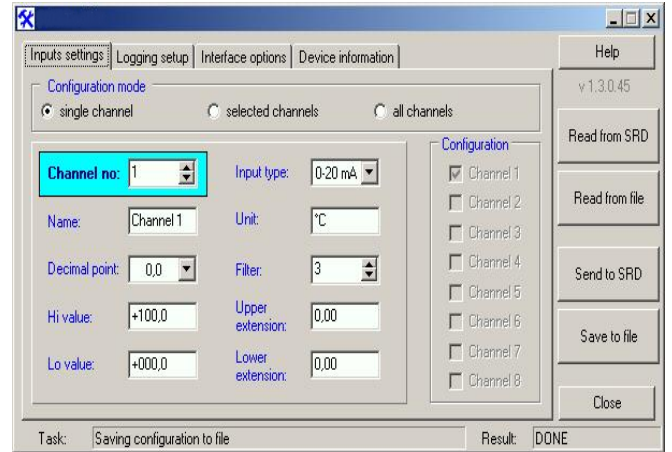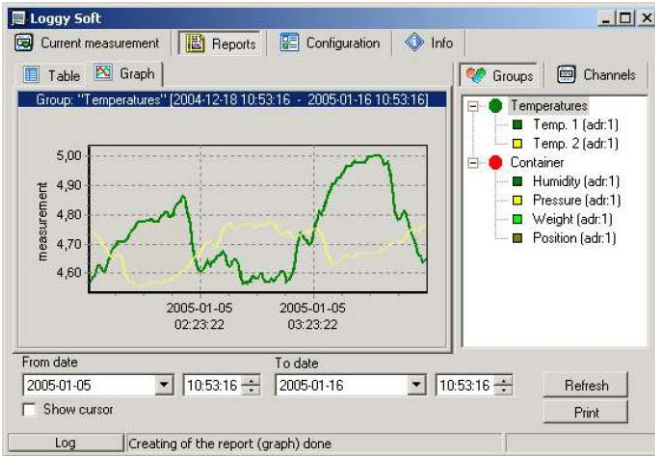4 : 85...260V AC/DC

options:
00 : no options
01 : IP 65 - front frame (only USB Host rear)
08 : operating temperature -20° C + 50° C
0P : IP 65 - front frame + operating temperatur -20 + 50° C

Software


LoggySoft: Program for presentation (table or chart), archiving, evaluation and export of recorded data of PAR-99X. The data are imported via USB memory stick or RS-485 interface. Export of data is in TXT-format. The software is included in scope of supply.

S-Toolkit: Program for the complete configuration of the PAR-99X. The data are imported via USB memory stick or RS-485 interface. The software is included in scope of supply.
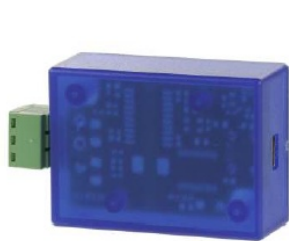
Exemplary pin assignment
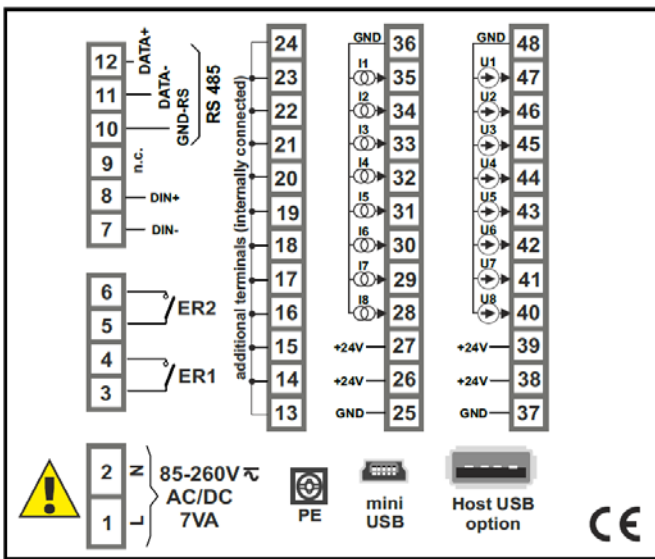
version withcurrent-/voltage inputs
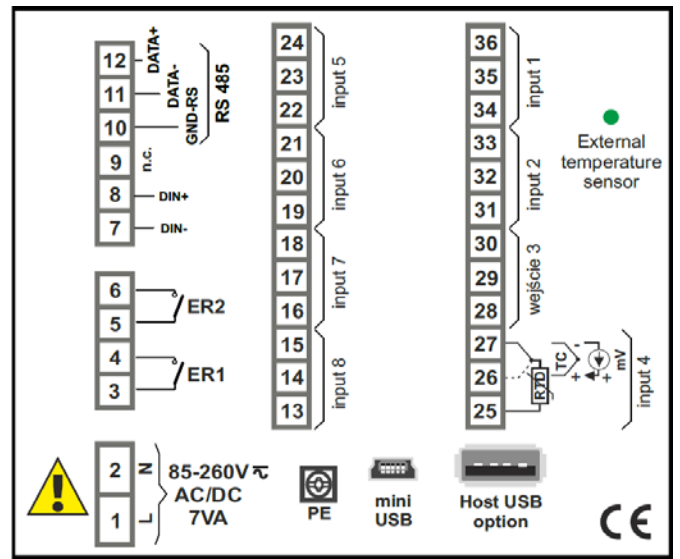
version with RTD-/TC inputs

accessories

converter USB/RS-485

lockable door

mini USB memory stick 8GB

DIN rail holder