BD SIMEX
a division of BD|SENSORS

PAR-N16X

- **wall mounted IP 65 case**
- **up to 8 inputs 0/4 - 20 mA or Pt100/Pt500/Pt1000**
- **graphic LCD, with backlight**
- **2 relay outputs**
- **communication RS-485 / Modbus RTU + USB**

Properties

The **MultiLog PAR-N16X** device 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 eight temperature (Pt100/500/1000) or current (0/4-20 mA) inputs, one digital input for the recording process control and one USB Host port for flash data storage. However, due to a significant number of configured parameters it is advised to use the attached configuration software for PCs. **PAR-N16X** has 2 relays with max. load 1A/250V AC enclosed within the unit. Main function of outputs is a signalisation of critical situations, but thanks to expanded menu it is possible to use it in numerous control and regulation applications. Both outputs can be driven by single measurement channel or by group of channels (from 1 to 8) with individually adjustable thresholds for every measurement channel. Signalisation of output state is made as two fields described R1 and R2 in left upper corner of LCD screen.

- USB-Host-Port for flash data storage and configuration transfer (option)
- Digital input 24V DC
- channels can be displayed the same time
- display brightness, -contrast and filter adjustable
- Password protection
- free configuration and recording software

Ordering

PAR-N16X-X-XX21-1-X-XX5-N1

display colour:
A: orange
W: white

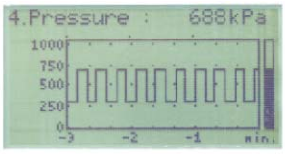
number of inputs:
1
4
8

typ of inputs:
1 : 0/4-20 mA
4 : RTD (Pt100, Pt500, Pt1000)

options:
0B : standard
0K : operating temp. -20°C ... +50°C

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

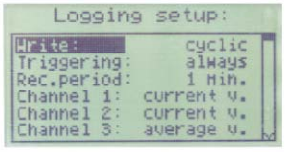
An example of what the display looks like



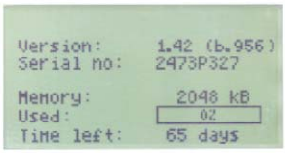
History of the process on chart

Current value of measurement signal

8-channels displayed the same time



Logging parameters



Device information

Main menu of the unit

Technical data

Power supply voltage: 19...50V DC; 16...35V AC or 85...260V AC/DC
Power consumption: typical 3 VA; max. 5 VA
Display: graphic LCD, 128 x 64 points, with backlight
Measuring inputs: 1, 4 or 8; Pt100; Pt500; Pt1000 (2 and 3-conductor connection) or 0/4-20 mA input; common ground
Measuring range: ± 9999 + decimal point (current inputs); -100°C ÷ +600°C (RTD inputs) with resolution 0,1°C
Digital input: 1 input 24V DC
Output: 2 SPST-relays max. 1A/250VAC
Sensor supply output: 24 V DC ± 5%, max. 200 mA, not separated from measuring inputs
Communication: RS-485 (Modbus RTU), USB Host Port, galvanically separated
Transmission speed: 1200...115200 bit/s
Mempory capacity: 8 MB internal (above 2 million data recordings)
IP rate protection: IP 65
Operation temp.: 0...50°C (optional: -20 ... 50°C)
Storage temp.: -10...70°C (optional: -20 ... 70°C)
Gehäuse: wall mounted
Gehäusematerial: ABS, PC
Gehäuseabmessungen: 166 x 161 x 93 mm
Glands: multi hole inserts (Multi) M25, M20, M16 (depend on number of channels)

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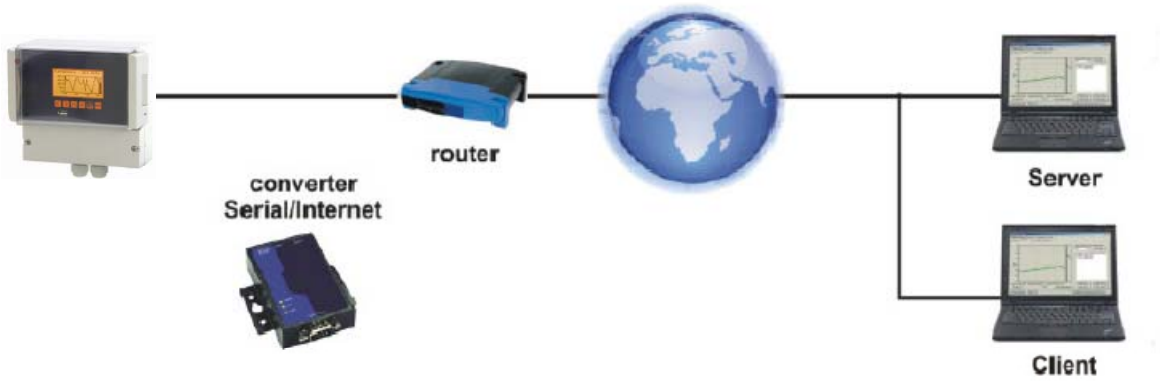
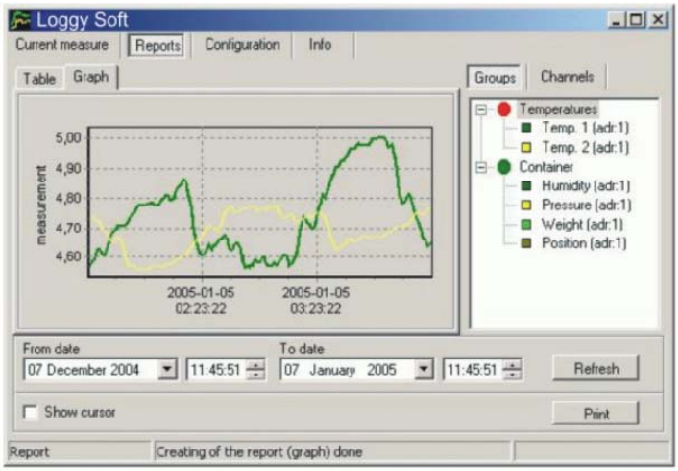
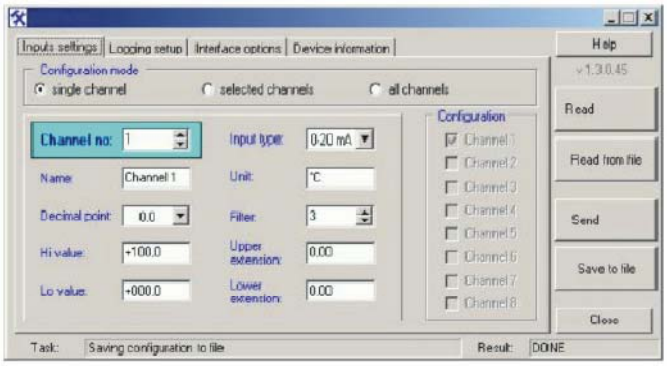
Typical application



Software Loggy Soft/S-Toolkit



LoggySoft: The program enables the visualization, archiving and printing of measurements (e.g. temperature, humidity, pressure) stored in MultiLog device memory.
Work with the MulitLog series devices takes place through an RS-485 serial interface or flash-dish devices plugged into USB port. Connecting s network of units to a serial port (RS232) or USB port of a PC is possible.



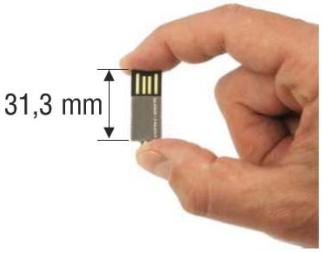
S-Toolkit: The software enables configuration reading and writing operations, updating the device firmware and obtaining basic information on MultiLog series devices through RS-485 serial interface or flash disk devices pluggend into USB port. This application enables to quickly and easily define device parameters in one of three possible configuration modes. The set of parameters can be transmitted directly to the device or stored in a file for future use.

Optional accessoirs

converter RS-232/RS-485

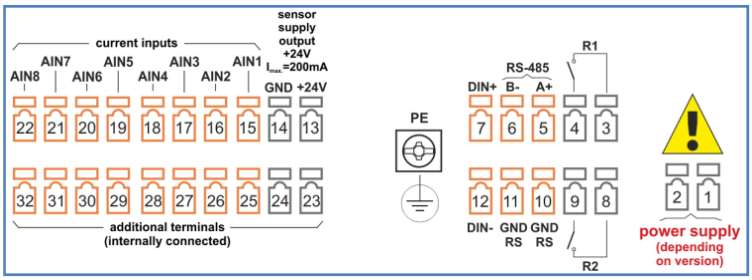
converter USB/RS-485

case lock

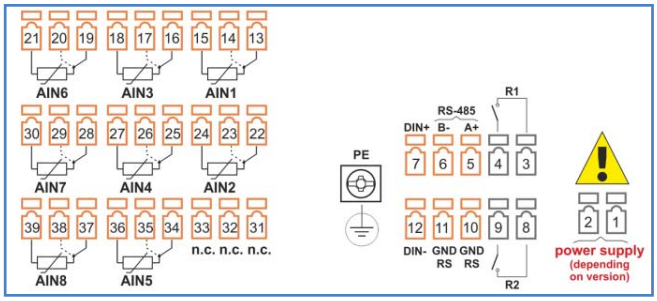


Mini USB-Stick 4GB

Exemplary pin assignment



version with current inputs



version with Pt inputs