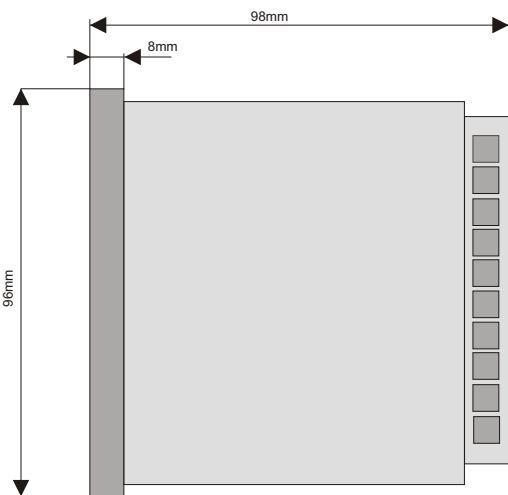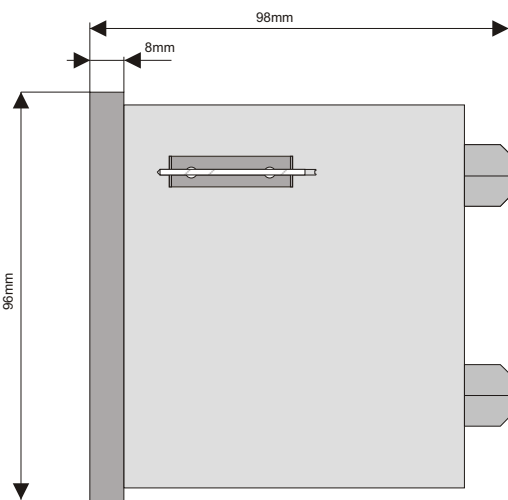# APLISENS ®

Data logger type PMS-90R

- ✓ **Up to 8 inputs 0/4 20mA or PT100/PT500/PT1000**
- ✓ **1 digital input for recording release**
- ✓ **2 relay outputs in standard (optoMOS)** *NEW*
- ✓ **USB Host port for flush data storage**
- ✓ **RS-485 / Modbus RTU**
- ✓ **Power supply 19V ÷ 50V DC, 85 ÷ 260V AC**
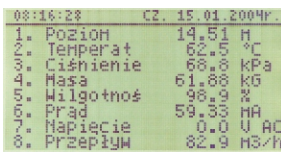- ✓ **free configuration and recording software**

Application and functions

The industrial data logger PMS-90R is designed to record and disply current values as well as to present technological parameters in the form of graphs. The devices is equipped with eight temperature input (PT100/ PT500/ PT1000) or current (0/4 – 20 mA), one impulsive (digital) input for controlling the recording process and one USB Host port for flash data storage. The device has the memory capacity of 2MB (500 000 data recordings altogether) or 8 MB in version with USB (2000 000 data recordings).
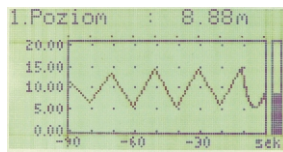
The measurement results can be represented in various forms (numerical, analog, graphic) equally as a singular reading, series of readings, or a group of channels. The archive of registered data can be searched, and the results of the search can be represented in graphic or tabular form.

The PMS-90 has 6 keys on the front panel. Keys enable the PMS-90R configuration. The menu assisted with full text descriptions makes the unit configuration of process quite easy. The data logger is fitted for galvanic insulated RS-485 interface, programmed with ModBus RTU transmission protocol. The PMS-90R can be programmed through PC with RS converter and Logger Soft software.
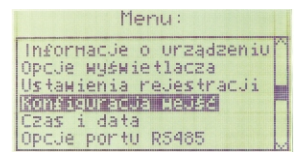
Front panel views

8- chanels view displayed on the same time
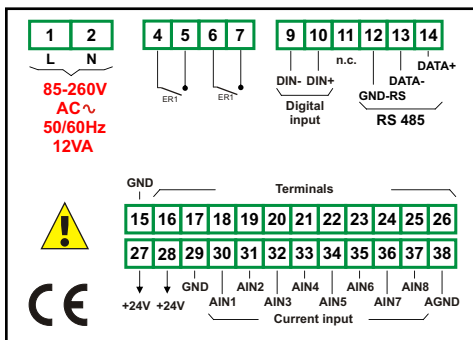

History of process in time

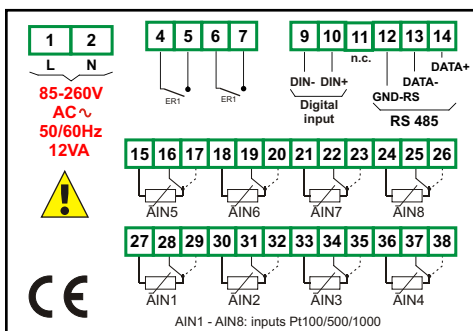Presentation of results in "Single circuit" mode

Main menu

Electrical diagram

Version with current inputs

Version with RTD inputs

AIN1 - AIN8: inputs Pt100/500/1000

Technical data

Input signal	Resistance signal(Pt100, Pt500, Pt1000), Current signal (0/4 – 20mA)
Power supply	19 – 50V DC, 85 – 260V AC
Power consumption	max. 12 VA
Measuring range	± 9999 (current inputs) -100°C ÷ +600°C (RTD input)
Digital input	1 input 24V DC
Internal power supply	24V DC/200mA
Communication interface	RS-485 (Modbus RTU), USB Host port
Transmission speed	up to 115 200bit/sec.
Memory capacity	2 MB or 8 MB (version with USB Host)
Display	graphic LCD 128x64
Working temperature	0 ÷ 60 °C
Casing dimensions	96x96x100 [mm]
2 Relay outputs	24VAC (35VDC)/200mA (ER1, ER2)
IP protection	version without USB: a) IP 40, b) IP65 (when additional frame is installed) version with USB: a) IP 20, b) IP42 (when O-90 is installed)

Optional accessories

- USB/RS-485 converter
- RS-232/RS-485 converter

Transparent door with moulded frame with key, IP 42

Ordering procedure

PMS-90R/___/___/___/___

Power supply:
19 - 50V DC, 85 - 260V AC

Type of input:
0/4-20mA
RTD

Number of chanels: 1, 4, 8

Options: IP 65, USB