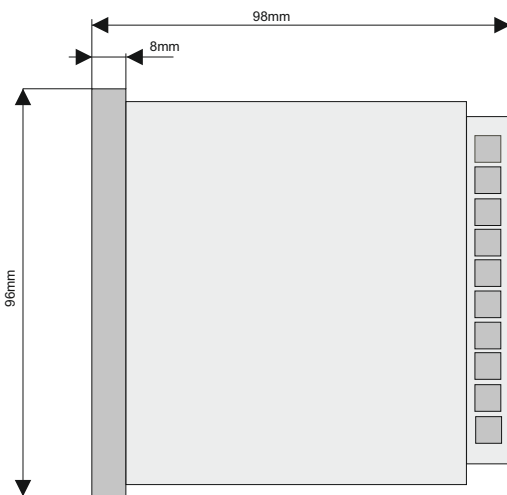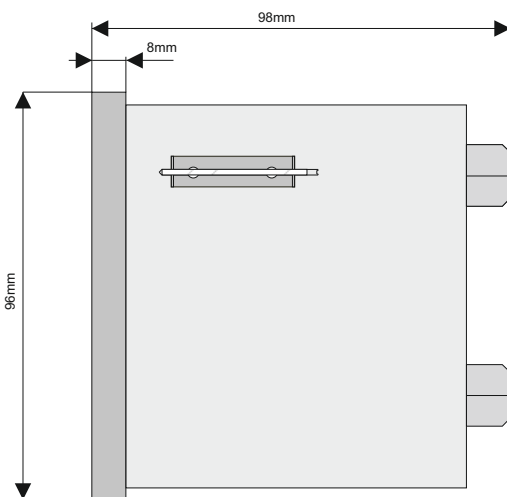# APLISENS ®

Data logger type PMS-90R

- ✓ **Up to 8 I/U inputs or RTD/TC inputs**
- ✓ **1 digital input for recording release**
- ✓ **2 relay outputs in standard (optoMOS)**
- ✓ **USB Host port for flush data storage**
- ✓ **RS-485 / Modbus RTU**
- ✓ **Power supply 19V ÷ 50V DC, 85 ÷ 260V AC**
- ✓ **Free configuration and recording software**
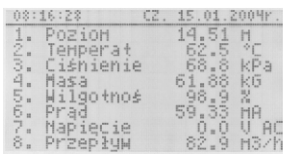
Application and functions

The industrial data logger PMS-90R is designed to record and display current values as well as to present technological parameters in the form of graphs. The devices is equipped with 1, 4 or 8 U/I inputs (0/4-20mA, 0/1-5V, 0/2-10V) or RTD/TC inputs (Pt100, Pt500, Pt1000, TC type K, S, J, T, N, R, B, E), one impulse (digital) input for controlling the recording process and one USB Host port for flash data storage. The device has the memory capacity of 8 MB in version with USB (3 000 000 data recordings).
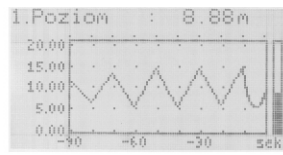
The measurement results can be represented in various forms (numerical, analog, graphic) equally as a singular reading, series of readings, or a group of channels. The archive of registered data can be searched, and the results of the search can be represented in graphic or tabular form.

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 Loggy Soft software.
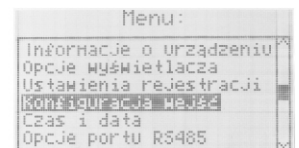
Front panel views

8- chanels view displayed on the same time
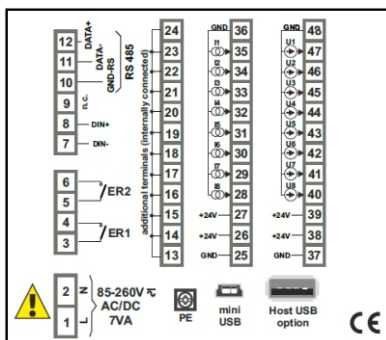

History of process in time

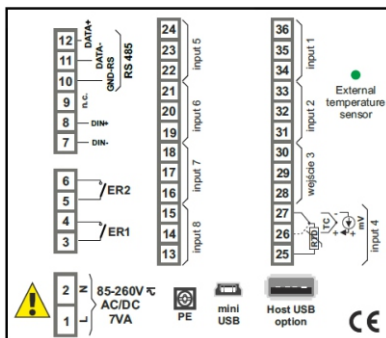Presentation of results in "Single circuit" mode

Main menu

Electrical diagram

Version with U/I inputs

Version with RTD/TC inputs

Technical data

Input signal	U/I (0/4–20mA, 0/1-5V, 0/2-10V or mixed)
	RTD/TC (Pt100, Pt500, Pt1000, TC type K, S, J, N, R, B, E, 0-60mV, 0-75mV, 0-150mV or mixed)
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	8 MB
Display	graphic LCD 128x64
Working temperature	0 ÷ 50 °C
Casing dimensions	96x96x100 [mm]
Relay outputs	24VAC (35VDC)/200mA (ER1, ER2)
IP protection	Front side: IP40 (front USB version) IP65 (rear USB version) Terminals: IP20

Optional accessories

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

Transparent door with moulded frame with key

Ordering procedure

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

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

Type of input:
U/I
RTD/TC

Number of chanels: 1, 4, 8

USB inerface: front, back