APLISENS®

AR915.B

SETTER - METER OF TEMPERATURE

USB
COM port
MODBUS-RTU

Software
ARsoft-CFG

Password protection

- possibility of testing measuring devices and temperature sensors
- universal input/output:
  - thermoresistive Pt100, Ni100 (resolution 1Ω)
  - thermoelectric J, K, S, B, R, T, E, N
  - linear: voltage (mV), resistive (Ω - resolution 1Ω)
- ergonomic hand housing of small dimensions and weight with rubberized non-slip side handles, simple and reliable to use laboratory banana connectors, functional keyboard, standard battery power supply (2x1,5V) or accumulators 2x1,2V NiMH, NiCd), AA type (R6)
- long operating time on new alkaline batteries or fully charged rechargeable batteries
- USB interface (micro-USB type B) for programming configuration and viewing measurements (ARsoft-CFG), enabling power supply from an external power supply or battery power bank
- intuitive operation, easy configuration and clear indication of device operating states
- two-rows, easy-to-read LCD display with icons and measurement units, showing sensor type, set/measured values, battery level and other diagnostic messages
- signalling the IN/OUT operating mode with pulsating LED diodes
- F button'for quick selection of one of the programmed functions: quick change of sensor type, keyboard lock, freezing of measurements (HOLD), preview of the reference cold junction temperature
- free software (for Windows 7/8/10) available enabling configuration and copying of device parameters, with the option of updating from the website (ARsoft-CFG)
- programmable password protection for access to configuration parameters
- high resistance to interference occuring in industrial environments

Content of set:
- device with 2 batteries 1,5V type AA (R6) and measuring wires
- storage case
- user manual

Ordering procedure
AR915.B

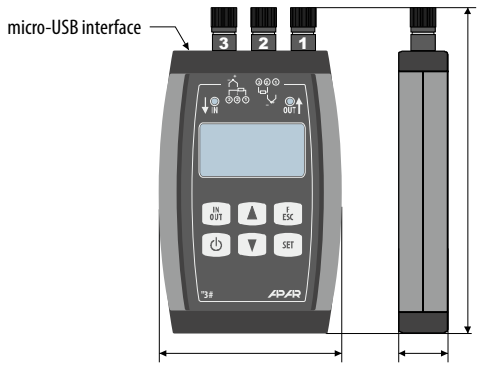
TECHNICAL DATA

Input/Output	Measur. range	Input/Output	Measur. range
Pt100 (RTD)	-100÷850*C	thermocouple R (PtRh13-Pt)	-40÷160*C
Ni100 (RTD)	-50÷170*C	thermocouple T (Cu-CuNi)	-25÷350*C
thermocouple J (Fe-CuNi)	-40÷800*C	thermocouple E (NiCr, CuNi)	-50÷750*C
thermocouple K (NiCr-NiAl)	-40÷1200*C	thermocouple N (NiCrSi-NiSi)	-80÷1300*C
thermocouple S (PtRh10-Pt)	-40÷1600*C	voltage	-5÷60mV
thermocouple B (PtRh30-PtRh6)	300÷1800*C	resistance	20÷5400Ω (IN), 20÷3200Ω (OUT)

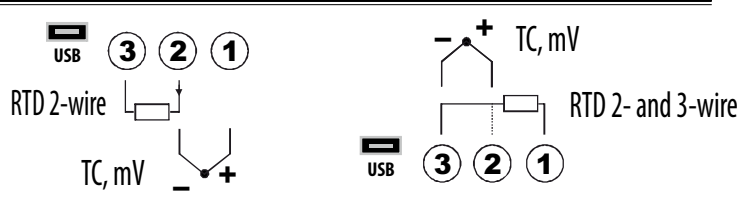
Lead resistance for RTD	R_d<25Ω (for each line)
Resistive input/output current (RTD, Ω)	~250µA (for measurements), max. 1mA (for setting)
Processing primary error (at 25°C ambient temperature)	measurement: ≤0,3% of measurement range ± 1 digit
	setting: ≤0,3% of measurement range ± 1 digit
Additional error (non-linearity)	≤0,5°C (≤0,2Ω for resistance measurement and setting)
Additional error (thermocouple input/output)	≤2°C (only with automatic thermocouple cold junction temperature compensation function active)
Additional error from temperature changes	≤0,01% of senor range/ °C
Indication resolution (programmable)	0,1 or 1 (1Ω for resistance setting)
Setting resolution (programmable)	0,5÷200 (min. 2,6°C for Pt100, 1,8°C for Ni100, 1,0Ω for res.)
Response time for measurements (10÷90%)	0,5÷3,5s (programmable filtration degree, default 1,5s)
Power supply (batteries or accumulators)	2x1,5V or 2x1,2V NiMH, type AA (R6)
Operating time (for 2500mAh alkaline batteries)	300÷500 hours (depending on operating mode and load)
Communication interface (MODBUS-RTU)	USB (micro B connector), drivers for Windows 7/8/10
Rated operating conditions	0÷50°C, <90%RH (without condensation)
Weight	~140g (~190g with batteries, included in set)
Protection degree	IP43 (IP20 from connectors side)
Electromagnetic compatibility (EMC)	resistance: according to PN-EN 61000-6-2
	emmisivity: according to PN-EN 61000-6-4

HOUSING

DIMENSIONS (height, width, depth)	136 x 80 x 25mm
MATERIAL	ABS



CONNECTIONS, VIEW FROM TOP



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