AR911

Setter - analog signal, measuring device

Setting or measuring current or voltage signals

- analogue output/input (programming device or meter):
  - current 0/4÷20mA (active output, cannot be supplied in two-wire current loop)
  - current 4÷20mA (passive) for 2-wire current loop
  - voltage 0/2÷10V
- output allows user to control or test devices with voltage or current input (proportional valves, actuators, inverters, motors, transducers, etc.)
- oft start/stop (ramping) or a triangular wave generator triggered and stopped manually
- programmable configuration parameters (display range, range and step changes of output signal, soft start/stop, auto-off time of the device, zero calibration, and amplification of the measured or setpoint signal, etc.)
- quick and easy to readout of the actual value of the measured or output signal (mA, V or converted into a programmable display range),type of signal set, operational direction
- diagnostic functions facilitating fault detection of the tested system, e.g. a short-circuit in voltage signal system, open circuit loop
- ergonomic hand-held design with rubberised side handles
- simple and reliable banana connectors for laboratory use
- highly visible LCD display (without backlighting) and functional keyboard
- power supply from two AA batteries (R6))
- a built-in battery charging system (charger included)
- option of protecting access to the configuration of parameters with password
- high resistance to interference occurring in industrial environments

Contents of set:

- set with batteries and measuring leads
- power supply for charging batteries with USB cable
- user manual
- case

Accessories:

- power supply for charging batteries

Ordering procedure

AR911

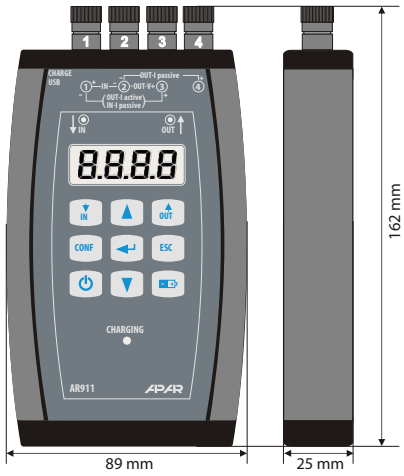
TECHNICAL DATA

Number of analog outputs/inputs	1/1 (operation modes-setting or measurement)
Current signal	standard 0/4÷20mA (input, output active and passive)
full range of changes	3,8÷21mA / 0÷21mA / 21÷3,8mA / 21÷0mA
resistance input and load resistance active output	$R_o = 65\ \Omega$ (input), $R_o \leq 500\ \Omega$ (output)
supply, load resistance active passive	$U_{sup} = 5 \div 36$Vdc, $R_o \leqslant (U_{sup}-5V)/21mA \leqslant 1500\ \Omega$
resolution	2 µA (maximum programmable), 10 µA standard
Voltage signal	standard 0/2÷10 V
full range of changes	0÷10,5V / 1,9÷10,5V / 10,5÷0V / 10,5÷1,9V
load resistance	$R_o > 2,7\ k\Omega$ (output), $R_i > 100\ k\Omega$ (input)
resolution	1 mV (maximum programmable), 10mV standard
Processing errors (at 25°C) basic	0,15 % (output), 0,2% (input) full range ±1 digit
additional from ambient temperature change	< 0,005 % of the input range / °C
Response time (10÷90%)	0,36 s (output), 0,32 ÷ 1,3 s - programmable (input)
LCD display (7-segment, 4 digits, height 10 mm, without backlight)	range of indications: -1999 ÷ 9999 maximum programmable, standard 0,00÷21,00 mA or 0,00÷10,50 V
Power supply batteries (rechargeable batteries)	2x1,5V or 2x1,2V NiMH, type AA (R6)
Charging	current < 400 mA, time < 320 min, micro USB socket
Operation time (2,000 mAh batteries) - note **(1)**	9 ÷ 400 hours, depend on the operation mode and load
Rated operating conditions	0 ÷ 50°C, <90 %RH (non-condesing)
Operating environment	air and neutral gases
Protection rating	IP43 (IP20 on the connection side)
Weight	~230g (with batteries, without charging power supply)
Electromagnetic compatibility (EMC)	immunity: acc. to the PN-EN 61000-6-2
	emission: acc. to the P PN-EN 61000-6-4

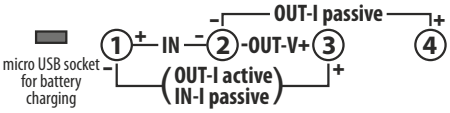
(1) the estimated time of operation with new fully charged rechargeable batteries is >9 hours in the setting mode for continuous current value of 20 mA, >40 hours for continuous voltage value of 10 V, and >400 hours in the testing mode

INSTALLATION DATA

Dimensions	162x89x25 mm
Material	ABS



CONNECTIONS



Current output active OUT-Iact can not work in the 4 ÷ 20mA loop

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