

AR904

Programming device for standard analogue signals



Programming device for standard analogue signals for controlling or testing devices with current or voltage input (proportional valves, actuators, inverters, motors, etc.)



- 2 analogue outputs (operating simultaneously):
 - current 4÷20mA or 0÷20mA (active output, cannot be supplied in two-wire current loop)
 - voltage 0÷10V
- soft start/stop (ramping) or a triangular wave generator triggered manually or automatically after switching power on
- programmable setpoint, step changes in the output signal, the range of indication, decimal point position, initial setpoint after switching power on, options of soft start/stop, communication, access, and other configuration parameters
- 7-segment LED display with adjustable brightness
- optional RS485/RS232 serial interface (galvanically isolated, MODBUS-RTU communication protocol)
- configuration of parameters with:
 - membrane keyboard (IP65) located on the front panel
 - via RS485/RS232 or PRG port (programmer AR955) and freeware: ARsoft-LOG (Windows 7/8/10)
- access to configuration parameters is protected by the user's password
- high accuracy and immunity to interference

Contents of set:

- programming device
- user manual
- warranty card

Available accessories:

- programmer AR955
- RS485 to USB converter

How to order

AR904 / ☐ / ☐

Supply	Code
230 Vac	S1
24 Vac/dc	S2

Interface RS*	Code
interface RS232	RS232
interface RS485	RS485

* option for an extra fee_a

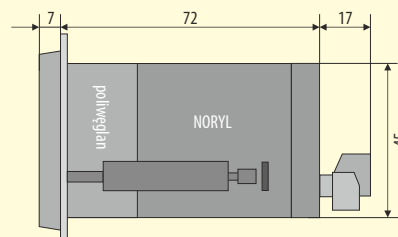
Fox example:

AR904/S1 - programming device AR904, supply 230 Vac

Technical Data	
Number of analog inputs	2
Current output	standard 0/4÷20 mA
full range of changes	3,8÷21mA, 0÷21mA, 21÷3,8mA, 21÷0mA
load resistance	$R_L \leq 1 \text{ k}\Omega$
maximum resolution	1,7 μ A
Voltage output	standard 0÷10 V
full range of changes	0÷10,5V / 10,5÷0V
load resistance	$R_L > 2,3 \text{ k}\Omega$ (load current $I_L < 4,5 \text{ mA}$)
maximum resolution	0,84 mV
Processing errors (at 25°C ambient temperature):	
basic	0,1 % of measuring range ± 1 digit
additional caused by ambient temp. changes	< 0,005 % of input range / °C
Output response time (10÷90%)	200 ms
Communication interface(option)	RS232 or RS485, MODBUS-RTU, galvanically sep. 500 V
Display	7-segment LED, 4 digits, height 20 mm
Power supply	230 Vac (85÷260 Vac) / 4 VA
	24 Vac (20÷50 Vac) / 4 VA, 24 Vdc (20÷72 Vdc) / 4 W
Rated operating conditions	0 ÷ 50°C, <90 %RH (non-condensing)
Working environment	air and neutral gases
Protection rating	IP65 front, IP20 of the connections side
Weight	~160g
Electromagnetic compatibility (EMC)	- immunity: acc. to PN-EN 61000-6-2
	- emission: acc. to PN-EN 61000-6-4

Dimensions, Instalation data

Enclosure dimensions	96x48x79 mm
Panel window	92x44 mm
Fixing methods	panel, grips on the side of the enclosure
Material	self-extinguishing polycarbonate NORYL 94V-0



Terminal strips, Electrical connections

