



- the device allows to set and measure standard current or voltage signals
- analog input/output (setter or meter)
 - current 0/4÷20mA passive/active
 - voltage 0/2÷10V
- the output allows to control or test devices with current or voltage input, (proportional valves, actuators, inverters, PLCs, transducers etc.)
- preview of the actual value of the set signal (mA, V) or input signal (mA, V, converted to a programmable indication range)
- soft start/stop (ramping) or a triangle waveform generator triggered and stopped manually or automatically after switching on the power
- programmable set point, output signal step, display range, soft start options, communication, access and other configuration parameters
- 7-segment LED display with brightness adjustment, 4 colors
- optional RS485 serial interface (galvanically isolated, MODBUS-RTU communication protocol, SLAVE)
- methods to configure parameters
 - via membrane keyboard IP65 located on the front panel
 - via PRG port (AR955/AR956 programmer) and free software ARsoft-CFG
 - via optional RS485 interface
- access to configuration parameters protected by user password
- high accuracy and resistance to interference

Contents of set:

- setter - meter
- user manual

Available accessories:

- AR955/AR956 programmer
- RS485 to USB interface converter
- IP65 front gasket

Ordering procedure

Order examples

AR904.B - AR904.B device, without RS485 interface

AR904.B / RS485 - AR904.B device, with RS485 interface

AR904.B / □	Interface RS*	Code
	interface RS485	RS485

* option for additional fee

TERMINAL STRIPS, ELECTRICAL CONNECTIONS - OUTPUTS



Active current output
Internal power supply in the AR904.B



Passive current output
External current loop supply
 $U_p = 5 \div 36 \text{ Vdc}$



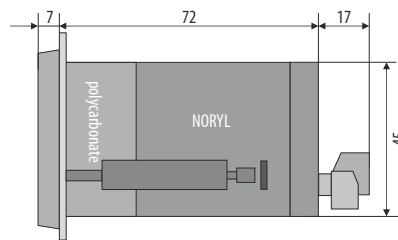
Output voltage V

TECHNICAL DATA

Type of analog input and output	programmable, voltage or current type
Current signal	standard 0/4÷20 mA (input and output)
full range of current changes	3,8÷21mA, 0÷21mA, 21÷3,8mA, 21÷0mA
input resistance (Rw), load resistance (Ro)	Rw = 47Ω (input), Ro ≤ (Up - 3V) / 21 mA ≤ 1,5 kΩ
resolution	2 μA (maximum programmable), 10 μA standard
Voltage signal	standard 0/2÷10 V (input and output)
	0÷10,5V / 1,9÷10,5V / 10,5÷0V / 10,5÷1,9V
	R _v > 2,7 kΩ (output), R _v > 100kΩ (input)
	1 mV (maximum programmable), 10mV standard
Processing error (at 25°C)	basic 0,15% (output), 0,2% (input) of full signal var. range ±1 digit
additional - from changes in ambient temperature	< 0,005 % of the input range / °C
Reaction time (10÷90%)	0,2 s (output), programmable 0,1÷1 s (input)
Communication interface (optional)	RS485, MODBUS-RTU, galvanic insulation 500 V
Display	7-segment LED, 4 digits, height 20 mm, 4 colors
Power (U_{sup}) - universal, in accordance with 24 and 230V standards, AC and DC	15 ÷ 250 Vac, <3 VA (AC voltage, 50/60 Hz) 20 ÷ 350 Vdc, <3 W (DC voltage)
Power supply of field transducer (for I_{pas})	24V / 50mA (possible power supply for field transducers)
Rated operating conditions	0 ÷ 50 °C, <90 %RH (no condensation)
Working environment	air and neutral gases
Protection rating	IP65 from the front (with a gasket), IP20 connection side
Weight	~165 g
Electromagnetic compatibility (EMC)	immunity: according to the PN-EN 61000-6-2 emmission: according to the PN-EN 61000-6-4
Safety requirements according to PN-EN 61010-1	- overvoltage category - II - pollution degree - 2 - height ASL <2000m insulation resistance >20 MΩ - voltage to the ground (earth) for inputs - 50V - voltage to the ground (earth) for outputs - 300V

INSTALLATION DATA

Housing dimensions	96x48x79 mm
Panel window	92x44 mm
Housing mounting	with handles on the side of the housing
Material	self-extinguishing NORLYL 94V-0, polycarbonate



TERMINAL STRIPS, ELECTRICAL CONNECTIONS - INPUTS

