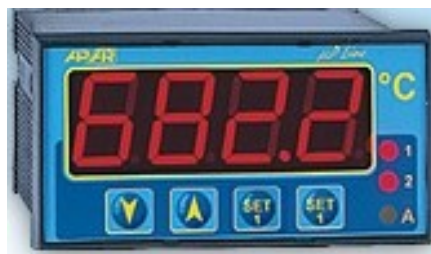




Universal Microprocessor Indicator Type AR520



- High accuracy and durability against noise of industry environment
- table protection 96 x 48 x 90 mm
- 3 alarms ON-OFF with output relays (or SSR) or without relays
- manual function for output control
- function of saving measuring data
- memory of minimal and maximal values
- computing of average value in given time
- digital readout LED with brightness adjustment
- programmable indication range (for analog inputs, resistance and potentiometric)
- sound alarm of alerts
- access to configuration protected by password
- programmable from 4-key keyboard IP54
- set includes a tack film with basic measuring units
- optional:
 - series interface RS232C or RS485, MODBUS-RTU
 - analog output 0/4÷20mA, 0÷10V (continuous-adjustable, restrans.)
 - third relay output or SSR
 - possible to open, transparent protection cover IP54

TECHNICAL SPECIFICATION

Universal input (chosen from keyboard), range of indicators and controllers:

RTD:	- Pt100 (3- or 2-wire)	-200 ÷	850	°C
	- Pt500 (3- or 2-wire)	-150 ÷	600	°C
	- Pt1000 (3- or 2-wire)	-200 ÷	600	°C
Thermocouple:	- thermocouple J	-150 ÷	1150	°C
	- thermocouple K	-150 ÷	1350	°C
	- thermocouple S	0 ÷	1650	°C
	- thermocouple B	300 ÷	1800	°C
	- thermocouple R	0 ÷	1600	°C
	- thermocouple T	-150 ÷	350	°C
	- temperatures compensations of thermocouple cold junctions			
Analog:	- current (Rwe = 50 Ω)	0 ÷	20mA, 4÷20mA	
	- voltage (Rwe > 10 MΩ)	0 ÷	60mV, ±60mV	
	- voltage (Rwe > 500 kΩ)	0 ÷	1V, 0÷10V, ±1V, ±10V	
Other:	- resistance	0 ÷	5kW	
	- potentiometric	100Ω ÷	5kΩ	

Power supply 24V= / 30mA

Digital readout LED (red, 4 digits)

- range of readout -1999÷9999; height of numbers 20 mm

Measuring accuracy 0,1% ±1 of digit

Output

- relay..... switch, 8A / 250V~ (for resist.)
- SSR (transistor OC, option)..... 12V/20mA
- universal analog output (chosen from keyboard,option):
 - current 0 ÷ 20mA , 4÷20mA
 - output resistance:..... Ro to 500 Ω
 - voltage 0 ÷ 10V,
 - output resistance:..... Io to 4,5mA
 - deviation of output level..... <0,1 %

Signaling

found errors - message on screen; activity of relays - diode LED red; additional alarm - diode LED green

Power supply

- grid supply 230V~ (85÷260 V~) / 3VA
- low voltage DC 24V= (18÷72 V=) / 3VA

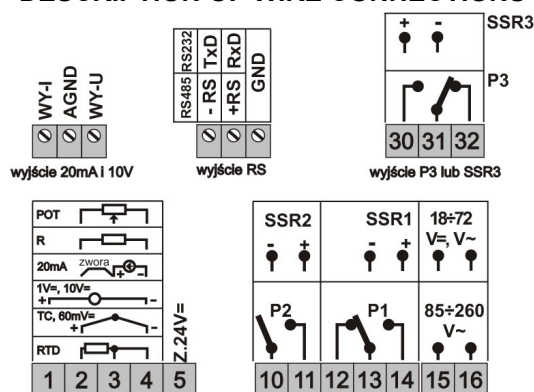
Operating temperature range..... 0 ÷ 50 °C; Relative humidity range 0 ÷ 90 %

Ordering Information

AR520 / A / B / C / D

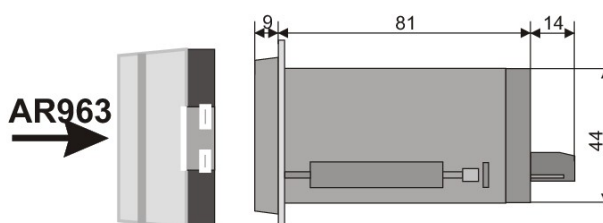
A. Power supply		A
	230 VAC (85 – 260 V)	S1
	24 VDC (18 – 72 V)	S2
	24 VAC (15 – 50 V)	S3
B. Output 1		B
	No	B
	Relay	P
	SSR (transistor NPN OC)	S
C. Output 2		C
	No	B
	Relay	P
	SSR (transistor NPN OC)	S
D. Additional options		D
	Series interface RS485	RS485
	Series interface RS232	RS232
	Analog output – without separation	WAN
	Analog output – with separation	WAG
	Third output – relay	P
	Third output – SSR	S
	Internal protection IP 54	PO

DESCRIPTION OF WIRE CONNECTIONS



ASSEMBLY DATA

Table protection box INCABOX, 01.109L075
 Material self-extinguishing NORYL 94V-0
 Dimensions of box 96 x 48 x 90 mm
 Window of table 92 x 44 mm
 Protection box IP54 AR963 (option)



Ordering Example

AR520 / S1 / P / B / RS485

Stands for : Universal indicator AR520, power supply 230 V (85 – 260 V), input 1 relay, no 2 input, additional series interface RS485.