

AR604

Temperature controller Type AR604



Microprocessor temperature controller type AR604 with double readout of measuring and ordering value is designed for regulation of constant value.

- high accuracy and resistance to interference,
- programming with button PGM and potentiometer with button function,
- access to configuration parameters secured by password,
- universal input: Pt100 and thermocouples J, K, S, N, E.
- digital filtration by programmed integration,
- digital readout with indication resolution 0,1°C for Pt100 i 1°C for thermocouples
- 1 threshold ON-OFF or PID with relay output or SSR
- signalling state of relay by illuminating diode
- possibility of blocking changes of threshold values

Technical specification

Universal input:

- Pt100 (3- or 2-wire)100 ÷ 850 °C (set-up of a factory)
- thermocouple J0 ÷ 800 °C
- thermocouple K0 ÷ 1200 °C
- thermocouple S0 ÷ 1600 °C
- electronic compensation of thermocouple cold ends
- Resistance of leads for Pt100 $R_d < 30 \Omega$ (3-wire for each line)

Input current Pt100:

- digital readout2 x 4 digit LED
- indications range-999÷9999
- indication resolution...0,1°C or 1°C
- upper display (red).....7mm
- lower display (green)...7mm

Accuracy:

- Pt1000,2 % measuring range ± 1 digit
- thermocouple0,3 % measuring range ± 1 digit
- thermocouple inputs additionally $\pm 2^\circ\text{C}$ (temperature of cold ends)
- response time0,5 ÷ 2 s (programmable)

Output:

- relay:
- for resistance loads8A / 250V~
 - for inductive loads2A / 250V~
 - life by full loadmin. 2x10⁵ switch
 - SSR (transistorized NPN OC) 2V, resistance current limit 440 Ω

Signalling:

- detected errorsmessages on display
- relay activities1 diode LED red

Dimensions:

- table housing48 x 48 x 79 mm
- window of table46 x 46 mm

Leakproofness class:

- IP50 –front panel,
- IP20 –connections

Power supply:power network 230Vac
(85÷260 Vac) / 3VA

- low voltage AC24Vac (15÷50 Vac) / 3VA
- low voltage DC24Vdc (18÷72 Vdc) / 3W

Work temperature range0 ÷ 50 °C

Relative humidity range0 ÷ 90 % (without condensation)

Mass125g

Compatibility EMC;resistance : ..PN-EN 61000-6-1:2002(U)

Emissivity:.....PN-EN 61000-6-3:2002(U)

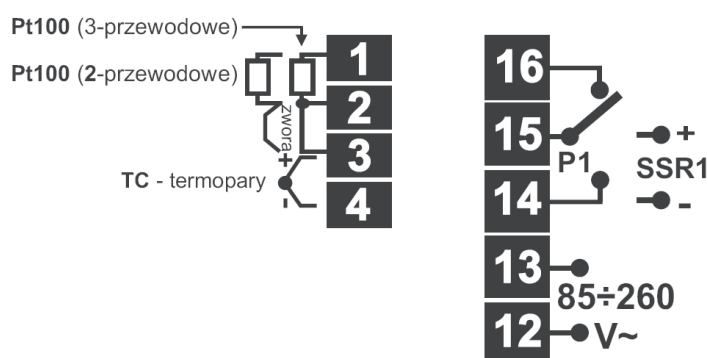
Ordering Information

AR604	A	B										
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A Power supply	
S1	230 VAC (85 – 260 V)
S2	24 VAC/DC

B Output 1	
P	Relay
S	SSR (transistorized NPN OC)

Description Of Wire Connections



Input 3-wire Pt100 :

- for clamps 1-2-3.

Input 2-wire Pt100 :

- for clamps 1-2, clamp in clamps 2-3.

Input of thermocouples J, K, S :

- for clamps 3-4 ('+' thermocouples for clamps 3, '-' to clamp 4).

Power supply :

- for clamps 12-13.

Relay output:

- P1 for clamps 14-15-16.

Output SSR:

- „+” SSR1 for clamp 14 „-” SSR1 for clamp 15.

Assembly Data

Housing of tableINCABOX 48x48 XT L57

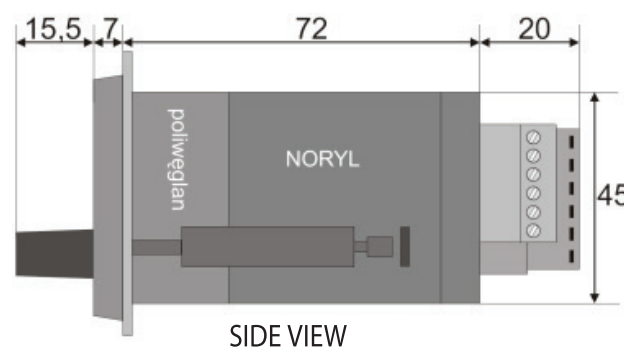
- front panelpolycarbonate

- housing frameself-extinguishing NORYL 94V-0

Housing dimensions48 x 48 x 79 mm

Window of table46 x 46 mm

Clampinghandles on housing side



Ordering Example

AR604-S1-P

stands for: Universal regulator AR604, power supply 230 VAC (85 – 260 VAC), output – relay