

AR601

Temperature Microprocessor Controller Type AR601



- high accuracy and durability against noise of industry environment
- programmable from 3- key film keyboard IP65
- access to configuration protected by password
- universal input: Pt100 and thermocouple J, K, S
- digital filtration by programming integration
- digital readout with resolution 0.1 °C for Pt100, 1°C for T/C
- 1 threshold ON-OFF or PID with relay output or SSR
- signaling of luminous diode of relay state
- ability of lockout of threshold value changes

Technical specification

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

- Pt100 (3- or 2-wire)-100 ÷ 850 °C
- thermocouple J0 ÷ 800 °C
- thermocouple K0 ÷ 1200 °C
- thermocouple S0 ÷ 1600 °C
- electronic compensation of thermocouple cold junctions

Digital readout LED (standard 4 digits):

- readout range-999÷9999
- height of numbers:9 mm

Measuring accuracy:

- Pt1000,2 % span ±1 of digit
- thermocouple0,3 % span ±1 of digit

Relay output:

- for resistance8A / 250V~
- for inductive resistance .2A / 250V~

Output SSR:transistor OC, 12V= /20mA

Signaling:

- found errorsinformation on screen
- activity of relaydiode LED red

Table box:48x48x79mm,
window of table 46x46 mm

Power supply:230V~ (± 10%)

Operating temp. range:0 ÷ 50 °C

Relative humidity range:0 ÷ 90 %

PARAMETERS OF CONFIGURATION (programmable, with password protected):

- Type of inputPt100, J, K, S
- Digital filterprogramming integration 1 ÷ 10 sek.
- Threshold characteristic.ON-OFF or PID, HEATING or COLLING
- Hysteresis for ON-OFF. .H1 = 0,1 ÷ 2000,0 °C
- Proportionality range for PID Xp = 0,1 ÷ 2000,0 °C
- Differentiation ratio for PID Td = 0 ÷ 999 sek, 0 switch of action D
- Integration ratio for PID .Ti = 0 ÷ 3600 sek, 0 switch of action I
- Zero offset.....-50,0°C ÷ +50,0°C

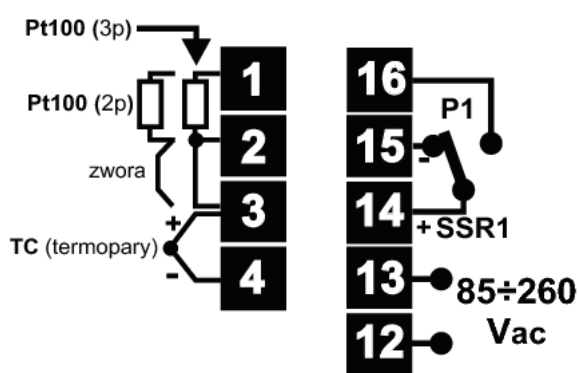
Ordering Information

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A Output

P	Relay
S	SSR

Description Of Wire Connections



Input 3-wire Pt100 :

- for terminals 1-2-3.

Input 2-wire Pt100 :

- for terminals 1-2, gripper for terminals 2-3.

Thermocouple input J, K, S :

- for terminals 2-3, gripper for terminals 3-4, ('+' t/c for terminal 2, '-' for terminal 3).

Power supply 230V~ :

- for terminals 15-16.

Relay output :

- P1 for terminals 12-13-14.

Output SSR:

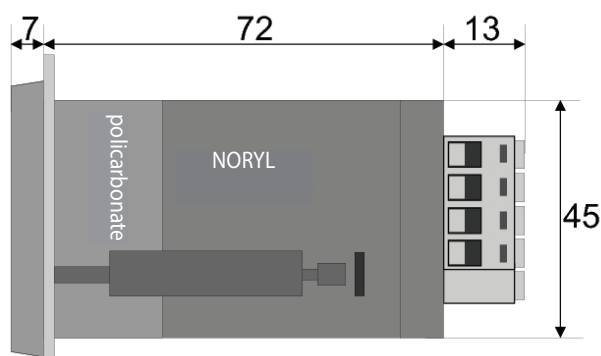
- + SSR for terminal 13, - SSR for terminal 14.

Assembly Data

Table boxINCABOX XT
 - front panelpolycarbonate, IP65
 - box bodyself-extinguishing NORYL 94V-0

Box dimensions8 x 48 x 79 mm

Window of table46 x 46 mm



Ordering Example

AR601-S

stands for: Temperature controller AR601 with output type SSR.