

**CONTROLLERS OF PT-0102 SERIES (TY Y 33.2-04850451-068-2003)**

Designed for automatic control, indication, signaling and archiving of temperature, pressure and other physical values converted into unified signal (in different manufacturing processes).

Work together with thermocouples of resistance, thermoelectrical or primary couples of other physical values with output signal 4 - 20 mA, 0 - 5 mA, 0 - 0,1 V, 0 - 1 V, 0 - 10 V, pulse signal with frequency 0 - 1 kHz (0-10 kHz).

Performance characteristics:

- two-position, three-position or proportional integral differential control;
- control in timer mode;
- PID control by sliders;
- precise control;
- precise measurement and control;
- software control of manufacturing process which can be approximated by piecewise linear dependency (up to 100 pieces for a single program or up to 50 pieces for each program of 4-program option) for PT-0102П;
- interface with PC via RS232 and RS485 and archiving of up to 10000 measured results in volatile memory with a set period from 1 to 180 min for PT-0102K;
- power supply +24 V for couples with unified output signal.

Range of controlled temperatures according to specific NSC, °C:

50M; 100M	from minus 50 to 150
50П; 100П; Pt100; Pt500; Pt1000	from minus 200 to 600
K	from minus 50 to 1200
L	from minus 50 to 800
S, R	from minus 50 to 1700
B	from 300 to 1800
J	from minus 200 to 900
T	from minus 200 to 400
A-1	from 0 to 2000

Absolute measurement errors resistance

0,1 - 1 °C for thermocouples of

1 - 3 °C for thermoelectrical couples

0,25 % for couples with unified output signal  
0,05 °C for high accuracy controllers

Low Order Unit, °C

0,1; 1  
0,01 for high accuracy controllers

Supply voltage, V  
from DC source  
from AC mains with 50 Hz  
Outputs

24 (12)  
220 (9 - 36)

Maximum three (may have different packaging options: contact relays for 220 V, 0,5 - 1 A of AC (can be up to 7 A if requested); low power optosymistor output for one or three phases to control by powerful thyristors (symistors); transistor key; analog output)

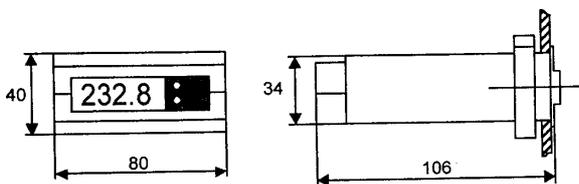
Weight of digital device, not more than, kg

with Щ1 housing 0,3  
with Щ2 housing 0,5

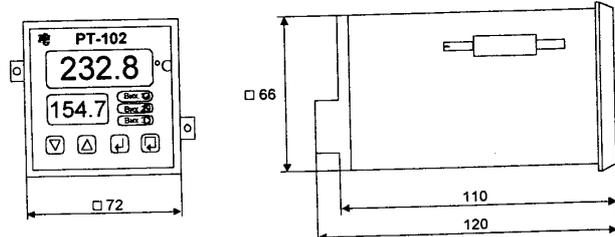
Size, mm

with Щ1 housing 106x80x40  
with Щ2 housing 72x72x120

Technical specifications (ranges, NSC, error, etc), thermocouple types may change.



Size of opening in a board - 76x35  
Fig. 1 - Housing Щ1 (for PT-0102)



Size of opening in a board - □ 66  
Fig. 1 - Housing Щ2