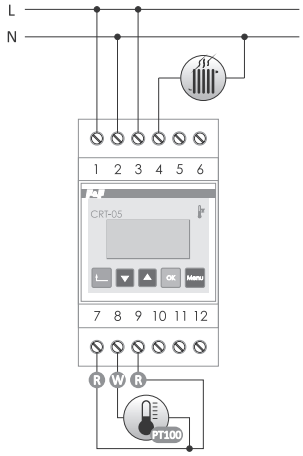
CRT-05 2-function, temperature range -100÷400°C (probe not included)



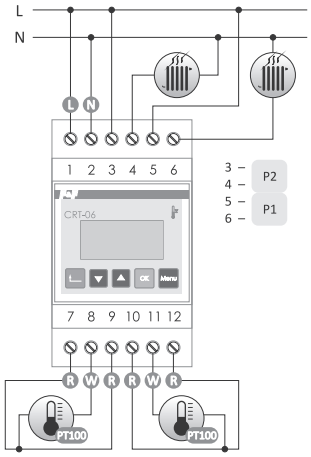
power supply	230 V AC
maximum load current (AC-1)	16 A
contact	separated 1×NO/NC
temperature adjustment range	-100÷400°C
hysteresis (adjustable)	0÷10°C
setting accuracy	1°C
indication correction	±20°C
temperature sensor type	RT56 (PT100)
power consumption	1.5 W
working temperature	-20÷40°C
terminal	2.5 mm² screw terminals (cord) 4.0 mm² screw terminals (wire)
tightening torque	0.5 Nm
dimensions	3 modules (52.5 mm)
mounting	for TH-35 rail
ingress protection	IP20

Functions

- A control panel that allows you to program and monitor the operation of the device;
- 2 modes of operation: **Heating** or **Cooling**;
- 2 adjustable hysteresis; **Lower** and **Upper**;
- Automatic mode: working with one (selected) function;
- Manual mode: closing or opening the contact permanently without temperature measurement;
- Correction - elimination of the error of temperature reading in relation to the reference thermometer;
- Error - visual indication of the exceeding of the range, temperature sensor failure or over-speed of temperature rising or falling;
- Blocking access to the programming menu with a PIN code;
- Light - definition of the display backlight mode;
- Language: program menu in one of 3 languages: Polish, English or Russian.

The parameters of the dedicated RT56 probe can be found in the table on page 264.

CRT-06 10-function, temperature range -100÷400°C (probe not included)



power supply	230 V AC
maximum load current (AC-1)	2×16 A
contact	separated 2×NO
temperature adjustment range	-100÷400°C
hysteresis (adjustable)	0÷100°C
setting accuracy	1°C
indication correction	±20°C
switch-on time lighting (adjustable)	0÷45 min.
sampling rate (adjustable)	1÷120 samples /1 min.
temperature sensor type	RT56 (PT100)
power consumption	1.5 W
working temperature	-20÷40°C
terminal	2.5 mm² screw terminals (cord) 4.0 mm² screw terminals (wire)
tightening torque	0.5 Nm
dimensions	3 modules (52.5 mm)
mounting	for TH-35 rail
ingress protection	IP20

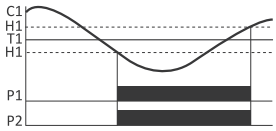
Functions

- A control panel that allows you to program and monitor the operation of the device;
- 10 modes of operation;
- 2 independent temperature sensors, setting of two independent temperature values;
- 2 NO contacts assigned to temperature sensors;
- 2 hysteresis value settings for each sensor separately;
- Automatic mode: operating with one (selected) function;
- Manual mode: closing or opening the contact permanently without temperature measurement; separately for P1 contact and P2 contact;
- Delay - programmable delay time when passing through the temperature limit values;
- Correction - elimination of the error of temperature reading in relation to the reference thermometer;
- Error - visual indication of the exceeding of the range, temperature sensor failure or over-speed of temperature rising or falling;
- Memory function for highest and lowest recorded temperature independently for sensors C1 and C2;
- Blocking access to the programming menu with a PIN code;
- Light - definition of the display backlight mode;
- Language: program menu in one of 3 languages: Polish, English or Russian.

The parameters of the dedicated RT56 probe can be found in the table on page 264.

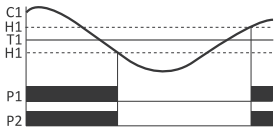
CRT-06: Working functions

①



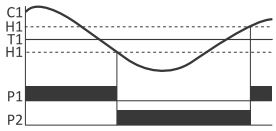
Heating mode
P1 and P2 contacts dependent on the C1 sensor.
– 1 sensor: C1
– parallel operation of contacts P1 and P2
– 1 temperature setting: T1
– 1 hysteresis setting: H1 (upper and lower threshold)

②



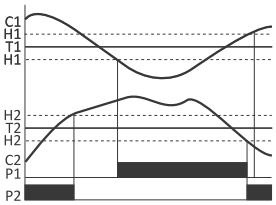
Cooling mode
P1 and P2 contacts dependent on the C1 sensor.
– 1 sensor: C1
– parallel operation of contacts P1 and P2
– 1 temperature setting: T1
– 1 hysteresis setting: H1 (upper and lower threshold)

③



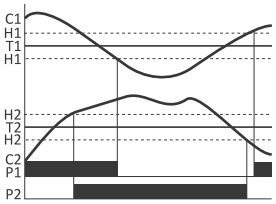
Heating/Cooling mode
P1 and P2 contacts dependent on the C1 sensor.
– 1 sensor: C1
– alternating contact operation: P1 – cooling; P2 – heating;
– 1 temperature setting: T1
– 1 hysteresis setting: H1 (upper and lower threshold)

④



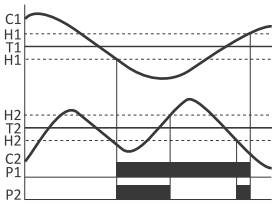
Heating mode for P1 and P2 contacts.
P1 contact dependent on the C1 sensor.
P2 contact dependent on the C2 sensor.
– 2 sensors: C1 and C2
– independent contact operation: P1 – heating; P2 – heating;
– 2 temperature setting: T1 and T2
– 2 hysteresis setting: H1 - upper and lower threshold for T1; H2 - the upper and lower threshold for T2

⑤



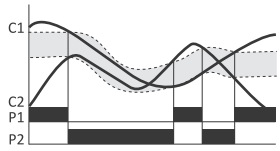
Cooling mode for P1 and P2 contacts.
P1 contact dependent on the C1 sensor.
P2 contact dependent on the C2 sensor.
– 2 sensors: C1 and C2
– independent contact operation: P1 – cooling; P2 – cooling
– 2 temperature setting: T1 and T2
– 2 hysteresis setting: H1 - upper and lower threshold for T1; H2 - the upper and lower threshold for T2

⑥



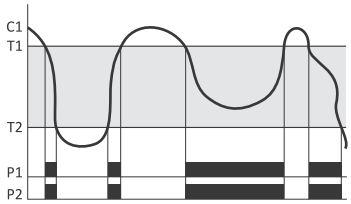
Heating mode for P1 and P2 contacts.
P1 contact dependent on the C1 sensor;
P2 contact dependent on the C2 and C1 sensor (switched on only if the P1 contact is closed).
– 2 sensors: C1 and C2
– dependent contact operation: P1 - heating; P2 - heating with P1 switched on
– 2 temperature setting: T1 and T2
– 2 hysteresis setting: H1 - upper and lower threshold for T1; H2 - the upper and lower threshold for T2

⑦



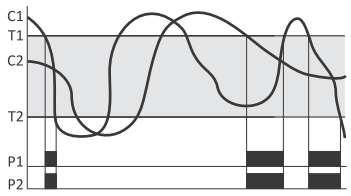
Differential mode.
P1 contact is switched on at a temperature difference greater than the setting.
P2 contact switches on in the opposite situation to the P1 contact - at a difference less than the setting.
– 2 sensors: C1 and C2
– alternating contact operation: P1 - heating; P2 - heating with P1 switched on
– 2 temperature setting: T1 and T2
– no H1 and H2 hysteresis setting

⑧



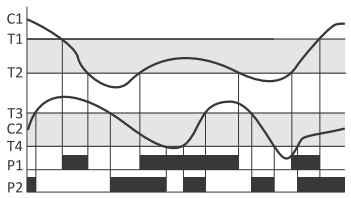
Window mode.
P1 and P2 contacts are switched on when the temperature of the C1 sensor is between set values of T1 and T2 temperatures.
– 1 sensor: C1
– parallel contact operation: P1 and P2
– 2 temperature setting: T1 and T2
– no hysteresis setting: H1 and H2

⑨



Window mode.
P1 and P2 contacts are switched on when the temperature of the C1 sensor is between set values of T1 and T2 temperatures.
– 2 sensors: C1 and C2
– parallel contact operation: P1 and P2
– 2 temperature setting: T1 and T2
– no H1 and H2 hysteresis setting

⑩



Window mode independent for P1 and P2 contacts.
P1 and P2 contacts are switched on when the temperature of the C1 sensor is between set values of T1 and T2 temperatures.
P2 and P2 contacts are switched on when the temperature of the C2 sensor is between set values of T3 and T4 temperatures.
– 2 sensors: C1 and C2;
– independent contact operation: P1 and P2;
– 4 temperature setting: T1 and T2 for P1 contact, T3 and T4 for P1 contact;
– no H1 and H2 hysteresis setting.