



Reverse time trial HCRT-096b

The HCRT-096b timer system is designed to control various devices using two relays that measure time. It can be used, for example, to determine and signal baking time in bakery ovens or fryers or, for example, to control the operation of mixers.



Appearance of the HCRT-096b timer

Setting the time without programming the device :

By pressing the "UP" or "DOWN" key, we set the desired time on the display. After releasing the button, the set value is saved. This setting applies to the fast time change for Pk1. To change other parameters, follow the PROGRAMMING instructions below..

Device operation

The operation of the device (measuring the set time) is started by pressing the "START" key or an external short-circuiting, momentary button, connected to terminals 3 and 4. The "WORK" indicator will start flashing, and the display will count down from the time set to zero. For this time, the Pk1 relay contact is activated (terminals 5 and 6). After the time set for Pk1 has elapsed, the Pk1 relay contact turns off and the Pk2 relay contact turns on for the set time, the "WORK" indicator is still blinking. After measuring the time for Pk2, its contact disconnects and the "OPERATION" indicator goes off - the device is ready for the next work cycle.

At any time, we can stop the time measurement process for Pk1 by pressing "STOP" on the keyboard. Operation is resumed after pressing the "START" button (this does not apply to the external "STOP" input, which ends the operation immediately). When working for Pk2, pressing the "STOP" key or an external short-circuit, momentary button connected to terminals No. 1 and 2 terminates the work, returns to the initial state and is ready for the next countdown process.

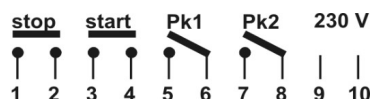
Programming:

To enter parameter programming, press and hold **"START"** for approx. 5 seconds. The text P1 will appear on the display. We start programming by selecting the parameter number with the arrows. After selecting the parameter number, press **"START"** and set the desired value, confirm by pressing **"START"** again, then set the next parameter in the same way. After setting, press the **"STOP"** button - the device is ready for operation.

Programmable parameters :

- P1** - time value for **Pk1 relay** from 1 to 999
- P2** - time value for **Pk2 relay** from 1 to 999
- P3** - unit of time for **Pk1**
 - 1 – seconds
 - 2 – minutes
- P4** - unit of time for **Pk2**
 - 1 – seconds
 - 2 – minutes

Description of electrical connections to the timer system



- 1 i 2 – external, momentary, closed-circuit button **STOP**
- 3 i 4 – external, momentary, closed-circuit button **START**
- 5 i 6 – relay contact **Pk1**
- 7 i 8 – relay contact **Pk2**
- 9 i 10 – power supply **230 V AC** or **15-24 V AC/DC**

Dane techniczne

power supply	230 V AC or 15-24 V AC/DC
relay outputs	2 x NO contact, 5A 230 V
time set for Pk1	1 – 999 seconds or minutes
time set for Pk2	1 – 999 seconds or minutes
time accuracy	± 0,15%
external START/STOP current	max 10 mA
dimensions	96 x 96 x 72 mm
mounting hole	90 x 90 mm
degree and class of protection	IP65 (from the front), 2 kV