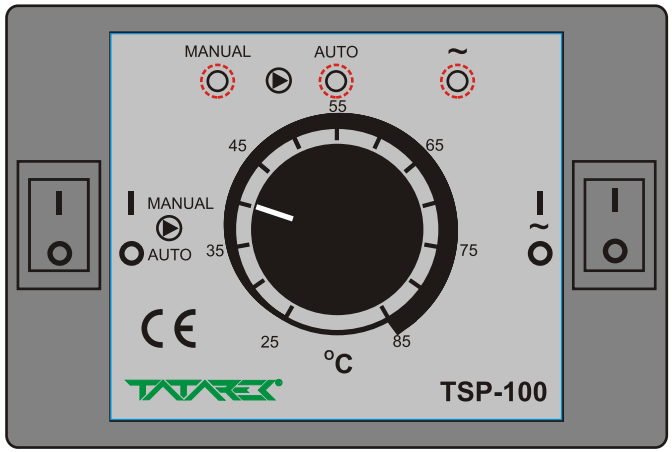
Zakład elektroniczny TATAREK Jerzy Tatarek

50-559 Wroclaw, 75 Swieradowska st
ph. (071) 367-21-67, 373-14-88, fax 373-14-58; tax index number 899-020-21-48;
Bank account : BZ WBK S.A. O/WROCŁAW 6910901522-0000-0000-5201-9335
www.tatarek.com.pl.; E-mail: tatarek@tatarek.com.pl

USER MANUAL

TEMPERATURE REGULATOR OF TURNING ON THE C.O. PUMP MODEL TSP-100



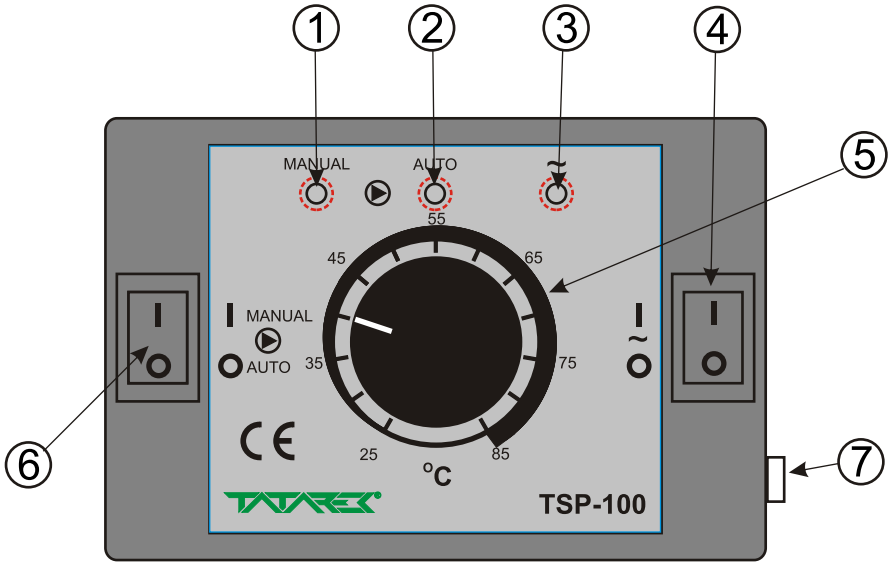
C.O.- central heating

1.Basic parameters of the regulator

Power supply	230V/50Hz ± 10%
Power consumption without the load	1W
Maximum connection power	500W
Operation conditions	0÷40°C
Humidity	10÷90% no condensation
Housing protection class	IP40
Time delay fuse	2,5A/250V
Number of outputs to control the pumps	1*500W/230V/50Hz
Setting range of temperature	25°C÷85°C
Temp. measurement precision	2°C
Temp. setting resolution	5°C
Encased temperature sensor	KTY81-210
Temperature strength of the sensor	-25°C÷100°C

2. Operation principle of the TSP-100 regulator

The regulator turns on the C.O pump depending on the temperature setting,indicating it by the AUTO diode. The regulator can manually control the C.O. pump (MANUAL)



① LED indicates switching on the C.O. pump manually ▶

② LED indicates switching on the C.O. pump automatically ▶

③ LED indicates turning on the power supply

④ Power switch I ~ O

⑤ Handle of setting the switch-on temperature of the pump C.O. 25°C÷85°C

⑥ Switch of the operation AUTO-MANUAL ▶

⑦ Fuse socket 1,6A/250V

Admission date	Realization date	Signature	Remarks

PRODUCENT ZASILACZY SIECIOWYCH
ISO 9001: 2000

CE CONFORMITY DECLARATION

Ref. No. 59.RT.01.2008/1/

We, ZAKŁAD ELEKTRONICZNY TATAREK Jerzy Tatarek
75 Swieradowska St. , 50-559 Wroclaw

declare under our sole responsibility that
the product: TEMPERATURE REGULATOR OF TURNING ON THE C.O. PUMP

model: TSP-100

is in conformity with the basic requirements included in Directive EMC 2004/108/WE of 15.12.2004 (the electromagnetic compatibility - law gazette No 82 pos. 556) and Directive LVD 2006/95/WE of 12.12.06- Directive of Economy Minister of 21.08.07 regarding the requirements for electric devices (Law Gazette No. 155 pos. 1089)

To the conformity evaluation the following harmonized standards were used:

PN-EN 60730-2-1: 2002 - Automatic electric regulators for house usage and the like. Part 2-1: Specific requirements regarding electric regulators for electric house devices

PN-EN 60730-1: 2002 - Automatic electric regulators for house usage and the like. Part 1: General requirements.

PN-EN 55022: 2000 - Electromagnetic compatibility (EMC)- IT devices Characteristics of radioelectric noises. Acceptable levels and measurement methods

Electronic Engineering Plant TATAREK
has initiated management system and complies with the following standard :
ISO9001: 2000 CERTIFICATE No. 133/2004 of 01.2004
Polish Foreign Trade Chamber

The last two digits of the year in which the CE marking was affixed: 08

Place of issue: **Manufacturer representative:**

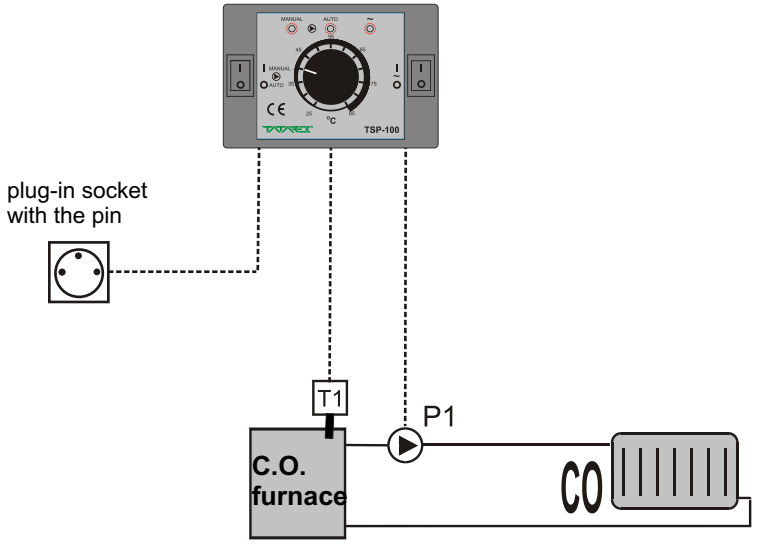
Wroclaw **Jerzy Kopeć**

Date of issue: **Position:**

4.09.2008 **Designer**

Demonstration operation setup of the regulator

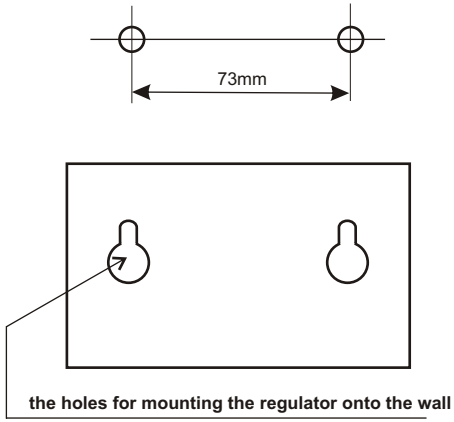
C.O.- central heating



T1- encased KTY 81-210 sensor
P1- circulating C.O. pump

Regulator installation on the wall

1.Drill 2 holes in the wall ø...
at the appropriate height
2. Attach the screw pins into the holes
-Screw in the screws leaving a 2,5mm distance off the wall
3. Hang the regulator on the protruding screws



Applications of the TSP-100 regulator

The regulator has applications where there's a need for turning on the C.O.- , CWU pump and thermostatic valves in the temperature range of 25°C÷85°C.
It can cooperate with all solid fuel C.O. furnaces.

Mounting the sensor

-mount the sensor on the disclosed output tube from the C.O. furnace (possibly close to the furnace),
-press the sensor to the tube with a band clip
-it is recommended that the distance of the tube between the furnace and the sensor be only covered only with an insulating material

Connecting the power cable to the pump

- connect to the terminal ⏚ the yellow or yellow-green conductor (earthing or neutral safety earthing
- connect to the terminal (N) the blue conductor
-connect to the terminal (L) the brown conductor

Checking the wiring

-check the correctness of connecting the cable and then screw down the cover of the motor clamp box of the pump

Connecting the regulator

-after protecting the cable against accidental neutralization, the power cable must be connected to the power socket 230V/50Hz with the earthing pin.

Attention: Ambient temperature of the place where the regulator is mounted should not exceed 40°C.

Regulator operation

Switching on the regulator

-switch over from (~) to I
-green LED lights up.

Automatic operation (red LED lights up)

-the regulator turns on and off the pump depending on the temperature set on the handle
-the pump turns on when the sensor temperature is higher than the preset temperature and turns off when the sensor temperature falls below the preset temperature on the regulator

Continuous operation

-switch over the button ⏵ to the I position at the activated button marked as (~) set to the I position (red LED lights)
-the pump runs all the time independent of the preset temperature on the regulator and the real temperature of the place where it's mounted.

ATTENTION !
THE REGULATOR MUST BE CONNECTED TO THE POWER SOCKET WITH THE EARTHING PIN

WARRANTY

1.Warranty is valid [24] months from the date of sale.
2.Producer does not take responsibility for any mechanical damages made by user.
3.MAKING REPAIRS OR MODYFYING THE DEVICE BY USER IS FORBIDDEN AND CAUSES WARRANTY CANCELATION
4.Warranty card is valid only with date of sale, seller's signature and stamp
5.Warranty and after-warranty repairs should be done only by producer, damaged regulators should be sent to producer in order to make all repairs needed.
6.Warranty protection involves the EU
7.Warranty does not exclude, not restrict and not suspend buyer's rights coming from the incompatibility of the article with the agreement (Laws Journal No. 141 Pos. 1176)

WARNING !

ANY MODIFICATION OF THE REGULATOR MADE BY USER CAN BE THE CAUSE OF SAFETY CONDITIONS DETERIORATION AND CAN EXPOSE THE USER TO ELECTRIC SHOCK OR DAMAGE DEVICES SUPPLIED.

Connection cable of regulator may be replaced only by producer or his authorized service locations

WARNING!
1. Producer does not take the responsibility for damage caused by atmospheric discharge
2. and overvoltage in the mains
3. Burnt fuses are not subject to warranty replacement

Date of sale _____

Seller's signature and stamp _____

Register No.. GIOS: E 0002240WZ

Worn out electronic and electric devices must be transfered to the utilization collection place, where will be accepted for free

ARGO-FILM
Recycling Plant No. 6
180 Krakowska st., 52-015 Wroclaw
ph.: 071 794 43 01,
0 515 122 142



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