Zakład elektroniczny TATAREK Jerzy Tatarek

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USER MANUAL

REMOTE CONTROL MODULE OF AIR DAMPER (RP-01)

v.1.0. (15.04.2010 program from version 1v0)



1.Basic parameters of the control module

Power supply	230V/50Hz
Auxiliary power supply	Gel rechargeable battery 12V/1.3Ah
Power consumption	5W
Operation conditions	0-40°C, humidity 10-90% no condensation
Protection class	IP41
Fuse	500mA/250V
Number of outputs to control the air damper drive	1 * 5V/500mA/DC
Power supply of the pilot	2 cells AAA (rechargeable batteries or batteries)

2.Principle of operation

The device is dedicated to remotely control the air damper via infrared. It's composed of 2 components: the control unit of the air damper (power : 230VAC or battery 12VDC) and infrared pilot.

3. Operating the control module

3.1 The control unit of the air damper

The control unit of the air damper is supplied with 230VAC. As an optional equipment you can connect to it a gel battery 12VDC. The battery operates stand-by, that is, it's automatically charged up when the power supply is on. When the power is off the battery maintains the operation of the device (battery of capacity 1,3Ah lasts for 24hr-operation.)

The control unit is connected to the TATAREK air damper and infrared receiver that should be placed at a visible location (in the reach of the pilot).

The control unit is equipped with the service panel (fig.1). The LED (1) indicates the power 230VAC. The LED (2) indicates the operation of the device and the state of the air damper- a short single blink means the air damper is closed and 2 blinks means the air damper is fully or partially opened. If the LED (2) is green the device is supplied from the mains, whereas the color red means the power comes from the battery.

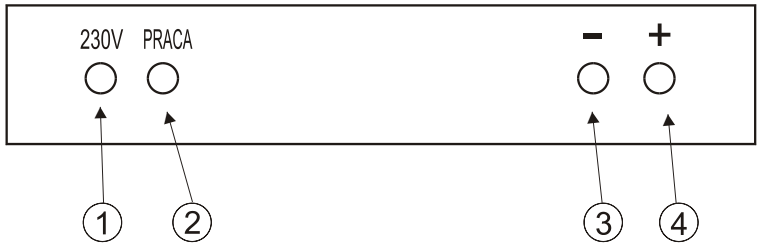


Fig.1 View of the service panel of the control unit

1. LED indicating the power 230VAC
2. LED indicating the operation of the device
3. Button to close the air damper on service
4. Button to open the air damper on service

The buttons (3) and (4) enables to change the position of the air damper. Those settings are valid till the reception of the signal command from the infrared pilot, so they're temporary. The buttons should be used therefore for servicing the device or in case the pilot is damaged.

Admission date	Realization date	Signature	Remarks

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

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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3.2 Pilot

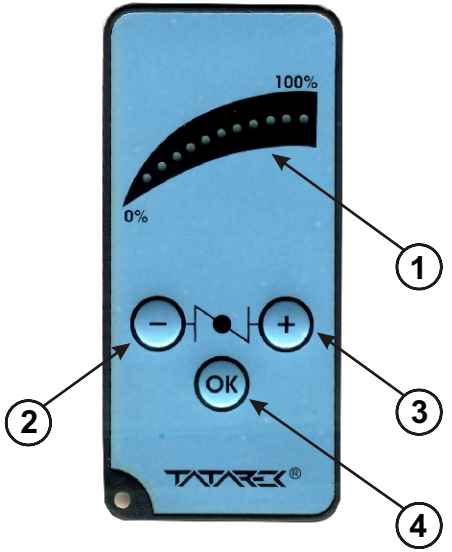


Fig.2 View of the pilot

1. LED line indicator
2. Down button „-„
3. Up button „+”
4. Button OK - switching on/ transfering via infrared

The pilot controls the operation of the air damper. On the LED line indicator you need to set the desired setting of the air damper in the range of 0 (full closing)...10(full opening) with the buttons "+/-" and then press the button "OK" (4), which causes the activation of the pilot and relaying the settings to the control unit of the air damper. **The right communication is signalled by the control unit emitting sound and blinking the red LED diode on the pilot.** In case the air damper changes its position that sound is longer (approx. 1sec). If it is already at the preset position that confirmation sound is shorter (approx. 0,1sec) (There's capability of turning off the sound indicator , see fig.3).

In order to economize the use of the battery the pilot is not switched on all the time. To activate it you need to press the button "OK" (4). The LED line indicator lights up for 3 secs recalling the current setting that can be altered with the buttons "+/-". Pressing again the OK button causes transferring the setting via infrared. Each pressing of any button extends the lighting of the LED line indicator by 3 secs.After that time the blinking of the line indicator proves the readiness of the device. If for 30 secs no button is pressed, the pilot switches off - the line indicator stops blinking and then you need to press the button OK to reactivate the pilot.

4. Mounting the control unit of the air damper

! THE CONTROL UNIT IS SUPPLIED WITH 230V/50Hz. ANY MANIPULATION OF THE SYSTEM SHOULD BE DONE WITH THE POWER OFF

! PRODUCER DOESN'T TAKE ANY RESPONSIBILITIES FOR ANY DAMAGES COMING OUT OF IMPROPER USE OF THE CONTROL UNIT.

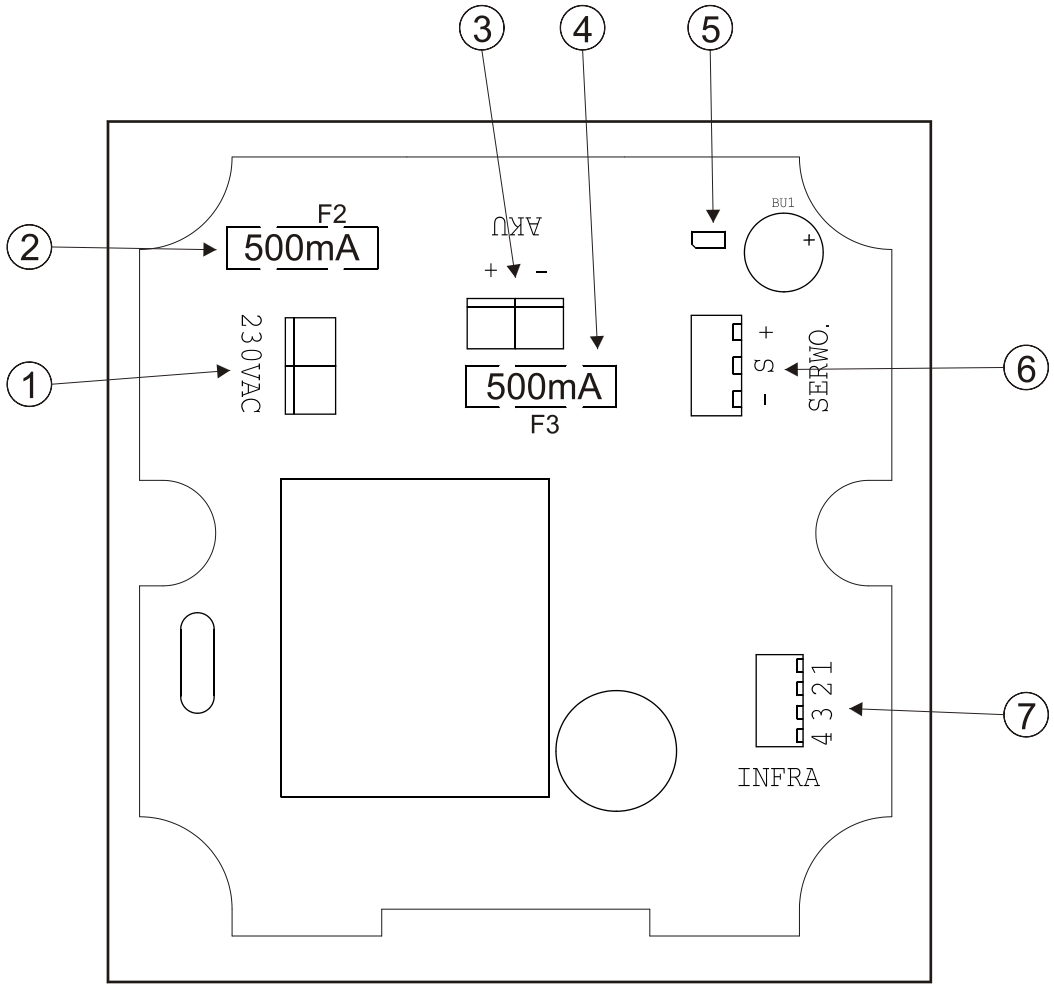


Fig.3 Installation scheme of the control unit of the air damper

1. Connection of the power supply cable 230VAC
2. Fuse of the power supply, fuse element 500mA/250V
3. Connection of the battery 12V. Pay attention to the bias:
   - „+" red terminal of the battery
   - „-„ black terminal of the battery
4. Fuse of the battery, fuse element 500mA/250V
5. Jumper of the sound indicator. If it's open the operation is silent, that is, without sounds.
6. Connection of the servo of the air damper. Pay attention to the bias:
   - „+" red cable
   - „S" blue or yellow cable
   - „-„ black cable
7. Connection of the infrared receiver . Pay attention to the bias:
   - „1" yellow cable
   - „2" green cable
   - „3" red cable
   - „4" black cable