Pulsar®

Code: **RAT-1R**
Name: **Thermostat RACK 1U**
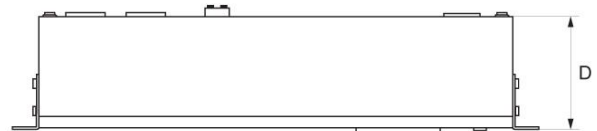**v1.0**

EN**

CE   RoHS

Edition: 2 from 12.04.2018
Supercedes the edition: 1 from 15.06.2016
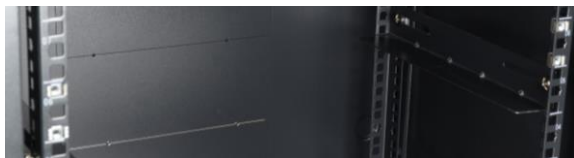
1. Application:

Panel of four fans with integrated digital thermostat in a RACK 19" enclosure with a 1U height. It is fitted with two power sockets - used for controlling fan units of the RAWP / RAWP-1 and RAW1 / RAW2 type. It is fitted with a detachable temperature sensor with a 2m length and with a 230VAC detachable power cord with a 2m length.

2. Technical parameters

Power supply	230VAC / 50Hz
Current consumption	0,01A
Power consumption	1W
Power supply output:	two C13 sockets Σ 10A @ 230VAC/50Hz
Fuse F_{main}	F1,5A/250V
Mounting dimensions:	W=19", H=1U
External dimensions:	W=482, H=44, D=314 [mm, +/-2]
Net/gross weight:	1,89 / 1,99 [kg]
Finish:	- steel sheet 1,2mm, colour: RAL9004 - two C13 sockets - temperature sensor
Application:	Indoor
Notes:	- four-point fixing to the front RACK rails - 4 M6 screws + cage nuts + plastic washer included - a separable 230VAC wire L_Z =2m included - a temperature sensor with a wire L_T =2m included - opportunity to work with ventilation panels **RAWP**, **RAWP-1, RAW1, RAW2** - programmable temperature thresholds for switching on/off the ventilation: 40÷50ºC - digital temperature indicator - power switch on the front panel
Declarations, warranty	CE, RoHS, 2 years from the production date

3. RAT-1R mounting:

4. Connection

Connect the temperature sensor to the "**Sensor**" socket located at rear of the unit and plug 230VAC power cord into the "**Power"** socket. Connect the RAWP / RAWP-1 / and RAW1 / RAW2 fan panels to **Fan1** and **Fan2** (type C13) sockets using the appropriate power supply cables. Turn the device using the power switch located on the front panel. After switching on the device, the current temperature measured by the sensor will be displayed.

5. Checking the preset operating parameters:

After pressing the **[^]** fan activation temperature will be displayed.
After pressing the **[^]** button fan shutdown temperature will be displayed.
After pressing the **[Set]** button, F4=0 will be displayed
After pressing the **[Set]** button, the alarm temperature will be displayed
During fan operation, the **Cool** LED is on.

6. Setting the operation parameters:

Press and hold the **[Set]** button for 3 seconds, the unit will enter the programming mode. The **Set** LED will light up and one of the **F1 ÷ F6** programs will be displayed; use **[^]** or **[v]** buttons to select the desired program number.
After pressing the **[Set] button,** the set value will be displayed.
To change the program values, press and hold the **[Set]** button and use **[^] and [v]** buttons to set the desired value. Press **[Rst]** to save and exit.

<u>Caution - disconnect the 230V power supply using the power switch each time after exiting the programming mode</u>

Available programs:
F1 – program to set the fan activation temperature
F2 – program to set the fan shutdown temperature
F3 – program for adjusting the temperature sensor
F4 – <u>turn off - set to „0"</u>
F5 – program for setting an acoustic indication – exceeding the preset **F1 and F2** temperatures by a predefined **F5** value (**F5**=0 – no alarm)
F6 – program to set the fan activation temperature

Program	Function	Range	Units
F1	Fan activation temperature	**F2** ÷ +50	^{O}C
F2	Fan shutdown temperature	-40 ÷ **F1**	^{O}C
F3	Calibration of the temperature sensor	-5 ÷ +5	^{O}C
F4	**Turn off - - set to "0"**	**-**	**-**
F5	Alarm - exceeding the preset **F1** and **F2** temperatures	0 ÷ 50 („0" alarm off)	^{O}C
F6	Delay of alarm activation after exceeding the preset temperature	0 ÷ 99	min

7. Errors:

When the display shows:

E1 – accompanied by acoustic indication – memory error

E2 – accompanied by acoustic indication – temperature sensor error

HH – exceeding the operating temperature of the controller