



## HATL02FP

Automatic fan control module for Raspberry Pi with I2C pins.

Do you want to the life of your fan, reduce its noise and control it automatically? With this MaticControl fan module you can! As a bonus, the second connector provides access to the I2C /TxD /RxD pins and third connector provides access to the 5V pins.

I2C pins along with a 3.3V pin are often used to connect displays or other modules that use an I2C pins



Place it on pins 1-10. And this is all you have to do on the hardware.



About the software about automated fan control you have two options:

1. Graphical

From Raspberry icon > Preferences> Raspberry Pi Configuration > Performance tab >set fan enable; Fan GPIO 4; and the temperature at which you want the fan to turn on. Save with OK



System	Display	Interfaces	Perform	ance	Localisation	
Overclock:		Not av	ailable			i i
GPU Memory:				76		
Overlay File Sy	/stem:				Configure.	
Fan:		٠	Enable	<ul> <li>Disable</li> </ul>		
Fan GPIO:				4		
Fan Temperat	ure;			75		

Thus, when the processor reaches the temperature you set, the fan will turn on. It will turn on off only when the processor temperature drops 10 degrees below the set on temperature. (For example, if you set the On temperature to 75 degrees, the fan will turn off when the processor reaches 65 degrees).

With these few easy steps, you now have automatic fan control.





2. Console

Open the Console and type "sudo raspi-config " pi@raspberrypi:~ \$ sudo raspi-config

You will open a graphical interface menu where you need to choose Performance Options:

			pi@raspberrypi: ~		×
	File Edi	t Tabs Help			
	Raspberry	Pi 4 Model B Rev 1.1			
		Raspberry Pi Softwa	re Configuration Tool (raspi-config)	 	
	1	System Options	Configure system settings		
	2	Display Options	Configure display settings		
	3	Interface Options	Configure connections to peripherals		
	5	Localisation Options	Configure language and regional settings		
	6	Advanced Options	Configure advanced settings		
	8	Update About recent config	Update this tool to the latest version		
	9	About raspi-coning	information about this configuration toot		
ł					
		<select></select>	<finish></finish>		
l					

Then Choose "Fan"

	pi@raspberrypi: ~	~		×
File Edit Tabs Help				
				Î
Raspberry Pi P1 Overclock P2 GPU Memory P3 Overlay File System P4 Fan	Software Configuration Tool (raspi-config) – Configure CPU overclocking Change the amount of memory made available t Enable/disable read-only file system Set behaviour of GPIO fan	co the	G	
<se< td=""><td>lect&gt; <back></back></td><td></td><td></td><td></td></se<>	lect> <back></back>			
				-





It will ask you if you want to enable fan temperature control? - Choose "Yes"



Here you need to set GPIO 4

	pi@raspberrypi: ~	~ ^ X
File Edit	Tabs Help	
		î
	To which GPIO is the fan connected?	
	<ok> <cancel></cancel></ok>	

Then set the temperature on which the fan will turn on

File Edit	Tabs Help	
		î
	At what temperature in degrees should the fan turn on?	
	At what temperature in degrees shoutd the ran turn on?	
	7 <u>5</u>	
	<ok> <cancel></cancel></ok>	





At last the system will inform you about the changes.

Electrical Scheme of the module:



