

Introduction

The Thermoguard software supports the control of the following IP socket strips:

Koukaam NETIO-230A (obsolete product):



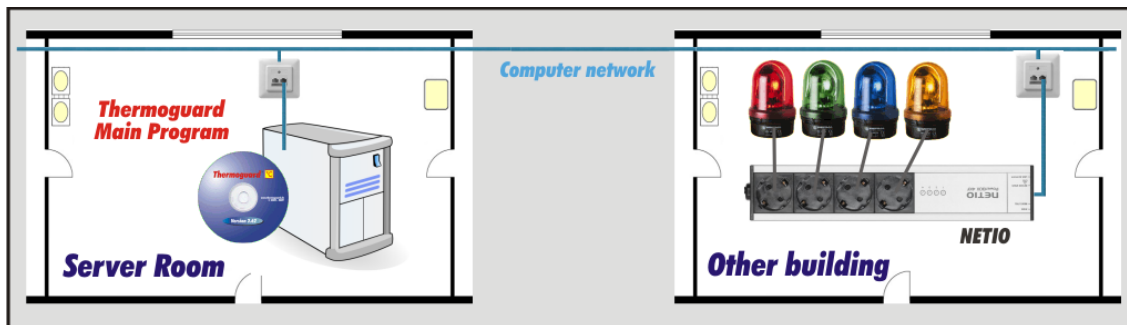
NETIO 4 (obsolete product):



NETIO PowerBOX 4KF (current product in June 2023):



Thermoguard supports up to 16 IP socket strips, each with its own IP. Each strip can switch up to four 230V~ devices - e.g. rotating beacons, signal lights or sirens. An e.g. optical alarm can be triggered by the arbitrary connection location of the strip in the network in addition to an alarm via e-mail/SMS directly on site of the monitored device:

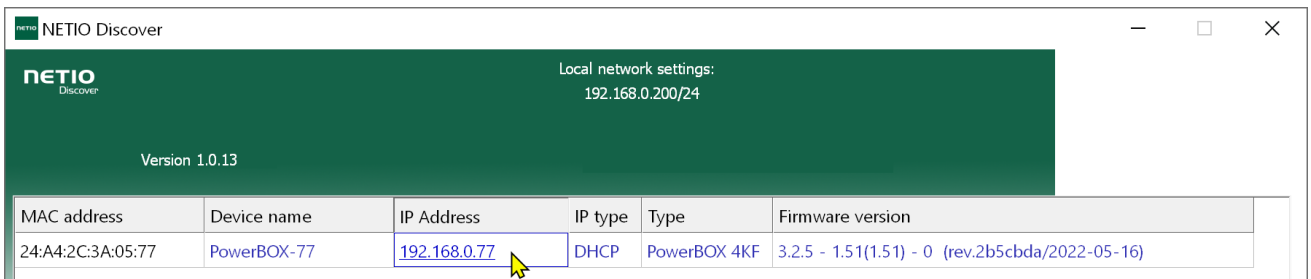


- The following information is applicable to NETIO PowerBOX 4KF.
- To operate the product NETIO PowerBOX 4KF the Thermoguard minimum version **2.96.13** dated **June 4, 2023** is required.

Setting up the strip

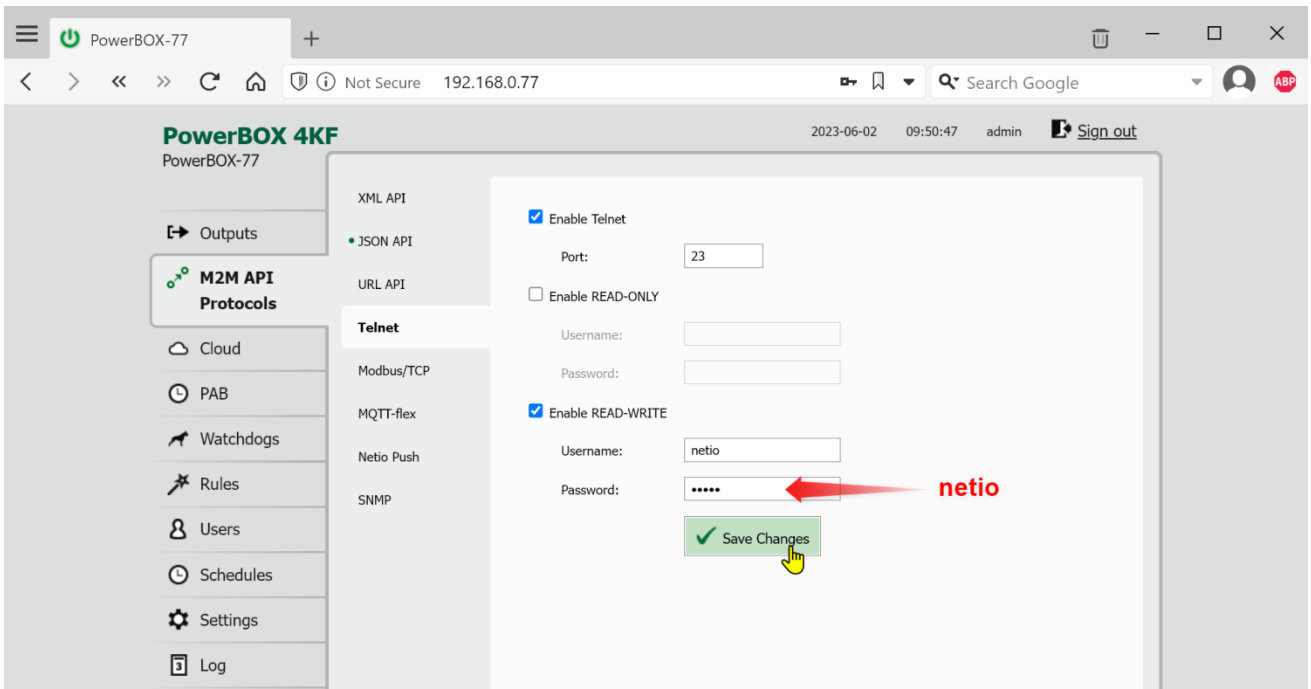
In the following you connect the strip, activate the Telnet protocol and assign a fixed IP address:

1. Connect the strip to the computer network with an Ethernet cable.
2. Connect the strip to the mains supply.
3. By default, the strip is set to operate with a DHCP server when shipped.
According to the NETIO manual, the assignment of the IP address by the DHCP server takes about 30 seconds after switching on the bar.
Install the utility program "NETIO Discover" (setup on the *Thermoguard* CD in the directory `\weitere Software\008 NETIO PowerBOX 4K`) and start it to get the assigned IP displayed:

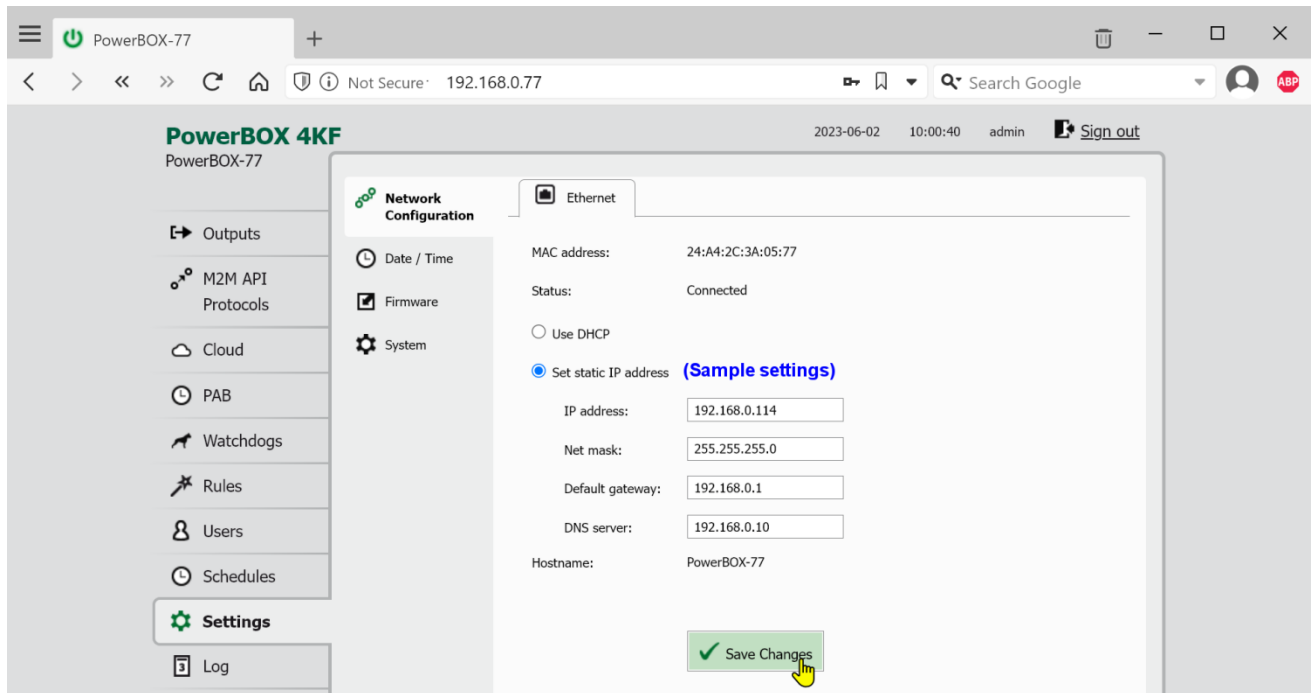


MAC address	Device name	IP Address	IP type	Type	Firmware version
24:A4:2C:3A:05:77	PowerBOX-77	192.168.0.77	DHCP	PowerBOX 4KF	3.2.5 - 1.51(1.51) - 0 (rev.2b5cbda/2022-05-16)

5. Click on the IP address to open your Internet browser with the login screen of the strip. Log in with admin/admin.
6. Activate the Telnet protocol (which is used by *Thermoguard* to control the strip):



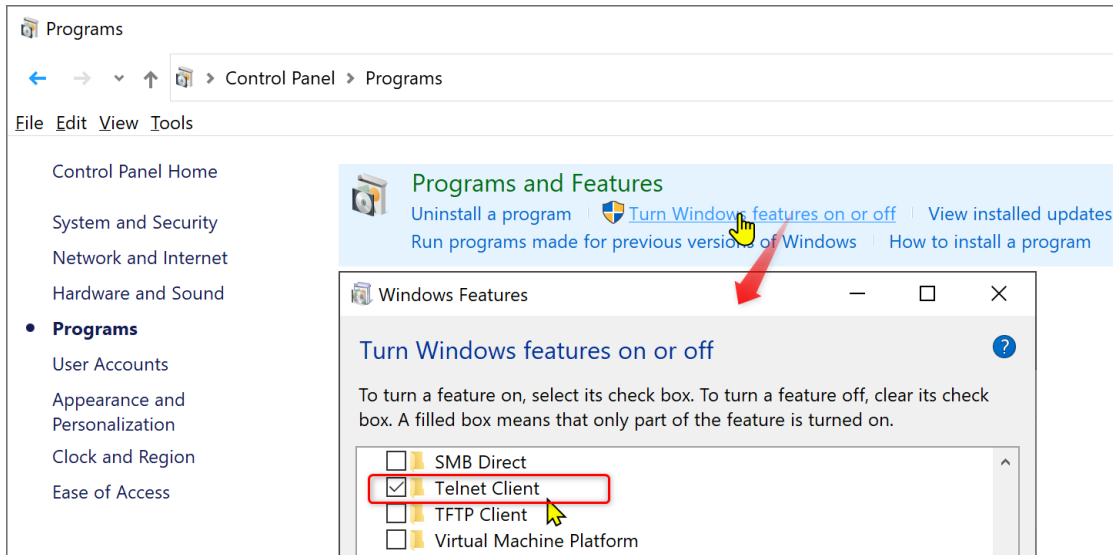
7. Assign a fixed IP address (after consulting with your IT):



This completes the setup and the strip is now accessible at IP 192.168.0.114 (in this example) and can be tested.

Test the strip

1. Make sure that the Telnet client is installed on the Thermoguard server; if not, please install it under *Control Panel/Programs/Turn Windows features on or off*:



2. Now test the basic functionality with the script `testNETIO.vbs`, which is located in the directory `\Weitere Software\008 NETIO PowerBOX 4K` on the *Thermoguard* CD. Before running the script (in a cmd window), change the IP address (using a text editor) at the top of the file in the line `Const sIP = "192.168.0.114"` to the address you have assigned. The relay #1 of the strip must click audibly during the test accordingly:

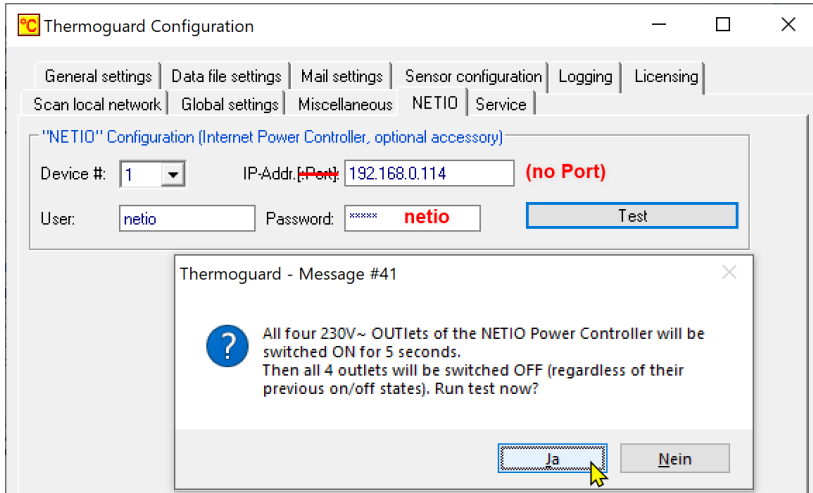
```
Telnet 192.168.0.114      testNETIO.vbs
100 HELLO 48121DFE - KSHLL V2.2
login netio netio
250 OK
port list
250 0000
port list 0000 (all OFF, wait 5 seconds)
250
port list 1uuu (#1 ON, wait 5 seconds)
250
port list 0uuu (#1 OFF, wait 0,5 seconds)
250
quit (quit telnet session)
110 BYE

Connection to host lost.
```

Note: The 8 digit hexadecimal identifier after "HELLO" changes with each call.

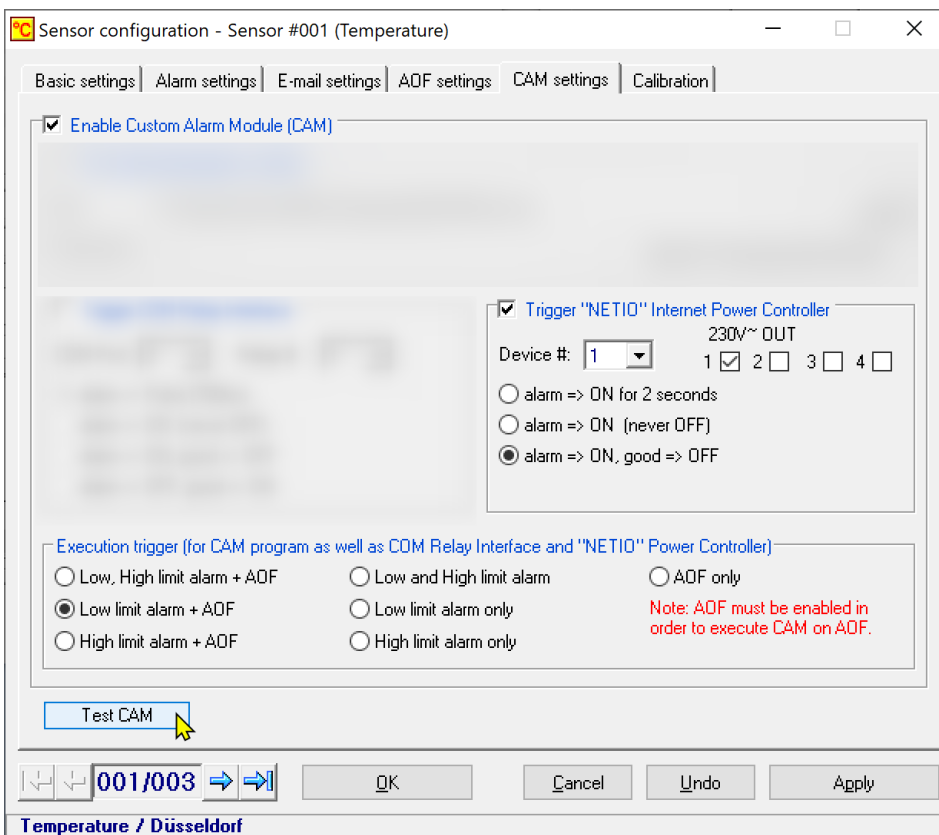
Configuration in *Thermoguard*-Software

1. In the *Thermoguard* configuration on the index card "NETIO" the IP, the user name and its password (both by default "netio") are entered. The strip can also be tested again here:



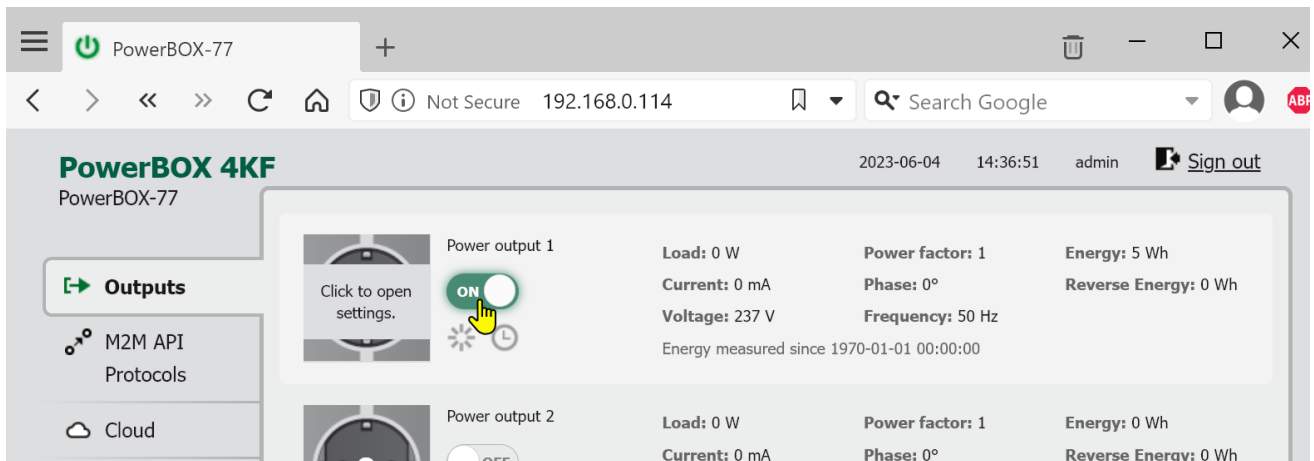
You can include a port after a colon after the IP if you have changed the default Telnet port 23 of the strip (via its web interface, see the bottom graphic on page 2); e.g. 192.168.0.114:26

2. Switching any combination of the 4 outlets in the event of an alarm can now be set individually for each sensor. This is done in the sensor configuration on the "CAM settings" tab. Three operation modes are available:

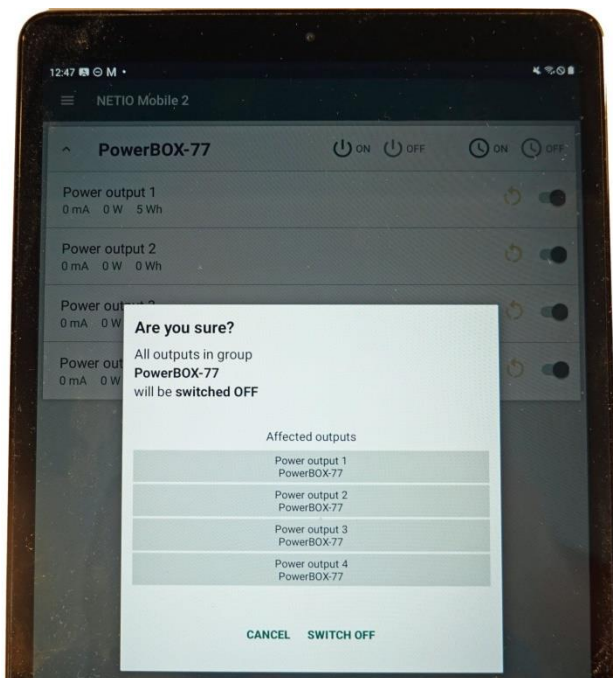


The setting can be checked with the CAM Test button.

In the "Alarm => ON (never OFF)" mode, the corresponding output must be switched off again "manually" via the web interface of the strip, i.e. using an internet browser:



Alternatively, you can also use the "NETIO Mobile 2" app e.g. on a smartphone, here - in contrast to the web interface - there is also the possibility to switch off all 4 outputs together at once as a group:



Attention:

In the "Alarm => ON for 2 seconds" and "Alarm => ON, good => OFF" modes, a sensor turns OFF the corresponding output(s) of the strip regardless of whether other sensors also control this output.

Example: Sensor A and Sensor B both switch output #1 of the strip in "ON, good => OFF" mode. Sensor A will turn the output ON if there is a limit violation, sensor B will as well. If the value for sensor A is back in the "green range", the output is switched OFF again, although sensor B may still violate its limit value.

It is not recorded internally which sensor has currently switched which output.

This is an essential difference to the control of the relay interface and also with "TG-Hat", where this information is considered.

Please take this "strict" behavior of *Thermoguard's* NETIO control into account in your planning/configuration.

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