Heatmiser Netmonitor

Technical Set-Up

Quick Start Guide

1 Connecting to the Netmonitor

IP Address - The default IP address of the Netmonitor is **192.168.0.**168
Your PC must be in the same range as the Netmonitor before connection is possible. The range is highlighted in bold, and is the first three sets of numbers. The last number is the unique device address on the network.

If you are using a router, it is likely that your PC is configured for DHCP which means that it obtains its IP address from your router. If this is the case, the Netmonitor must be in the same range as your router.

It is normal for routers to come with their default IP address set to **192.168.0.**1 which means they should already be in the same range as the Netmonitor.

To test if this is already the case, follow the Ping Procedure.

Ping Procedure

- Click Start
- Click Run
- Type ping 192.168.0.168
- If you see reply from 192.168.0.168 4 times, your Netmonitor is ready for use. You can now either;
  Go to “Changing the IP address of your Netmonitor”
  Or if you happy with its current setting on your network
  Go to “Accessing the Netmonitor over the internet”
- If you see a Request Time Out error, read the step below “Request Time Out Error”

Request Time Out Error
This error occurs when your PC is out of range from the Netmonitor – and it simply means the two devices cannot see each other.

We need to temporarily change the IP address of your PC so that the two devices can see each other. Once we can connect to the Netmonitor, we can change its IP address so that it’s within your preferred range.

DHCP Support
The Netmonitor doesn’t support DHCP because its IP address must be static – otherwise connection over the internet wouldn’t be possible. If you are using a DHCP server, it is likely the router has been given a range of IP address which it can dynamically assign. (Give out automatically)

Lets assume that your router can assign IP addresses from 192.168.0.1 to 192.168.0.100 you can safely give the Netmonitor any address after this without any conflict. So for example, any address from 192.168.0.101

Click Start

- Open Control panel
- Open Network Connections
- Right click the Network connection you are using
- Select Internet Protocol (TCP/IP) and then click Properties
- There are two options available here, please select according to your PC set-up.

Obtain IP automatically

If your PC is set-up to automatically obtain its IP from the router, you will see a screen like this. (Fig1)

Carefully make a note of this setting before making any changes. You should click the Use the following IP address and then enter the settings shown in Fig 2

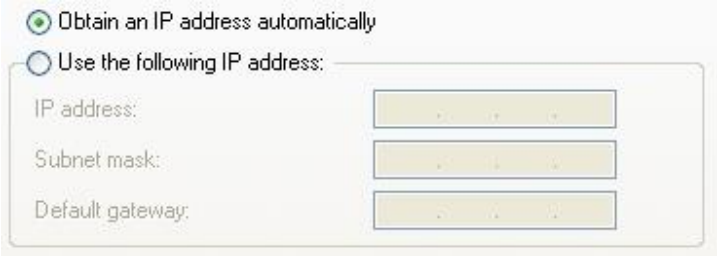


Fig 1

Use the following IP

You will now see a screen like this. (Fig2)

Carefully make a note of your original IP address and Subnet mask settings before making any changes.

Now, you should enter the settings so they match those shown in this picture.

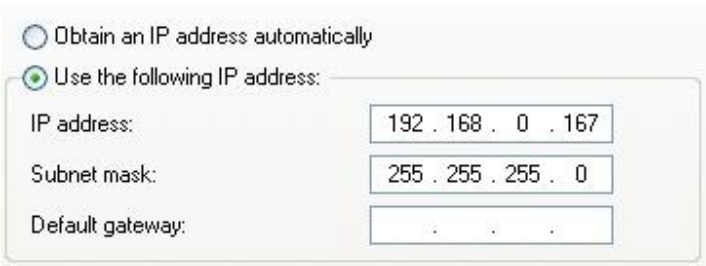


Fig 2

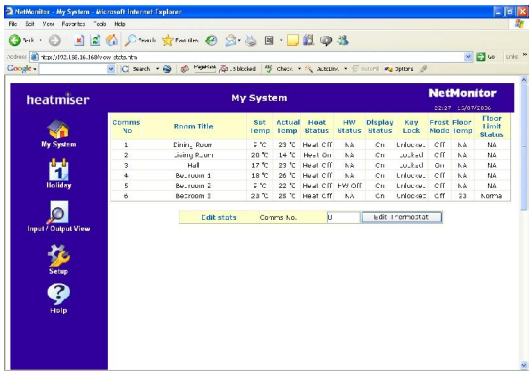
Remember we will return here shortly to put these settings back as they were.

You should now repeat the “Ping Procedure” If you receive a successful reply, you can go to the “Changing the IP Address of the Netmonitor” section. If not, repeat the steps above ensuring the details entered are correct.

Changing the IP address of the Netmonitor

- Connect to your Netmonitor by typing http://192.168.0.168 in the address field of Internet Explorer.

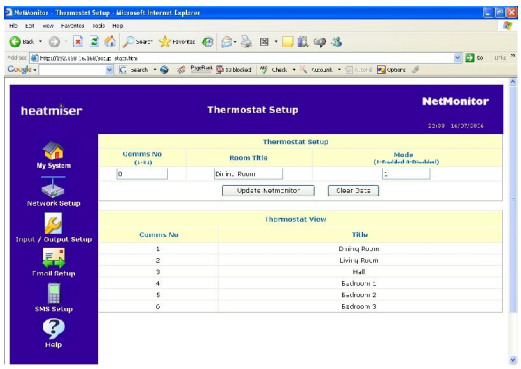
- When prompted, enter admin for the user name and admin for the password, both in lower case



- After logging in, you will see this screen.

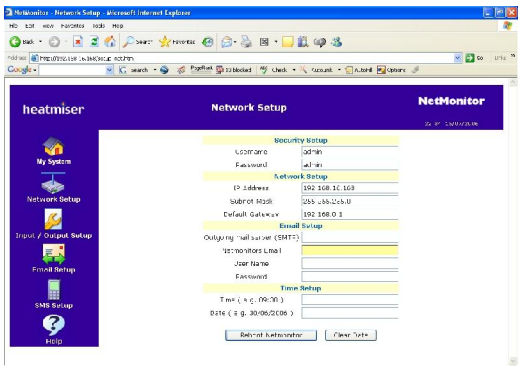
- Click the Setup Icon

- Click the Network Setup Icon



- You will now see the current network parameters for the Netmonitor.

- You can now enter your preferred network IP address and Subnet Mask. You should also enter the correct time and change your User Name and Password in order to secure your Netmonitor



- You should Save and Reboot the Netmonitor.

YOU SHOULD NOW GO TO PAGE 4, RETURNING YOUR PC NETWORK SETTING TO THEIR ORGINAL SETTINGS.

Note: Remember! The Netmonitor must be within the same range as your router.

2 Accessing the Netmonitor over the Internet

You should have already connected your Netmonitor to your router and you should now be able to “ping” the Netmonitor as described on page 3.

Within the router you will have a firewall which is designed to block unwanted incoming internet traffic. This means that you will not be able to access the Netmonitor without adjusting the configuration of your router.

To gain access, we need to set-up a function called Port Forwarding which allows us to connect remotely to the Netmonitor.

You should forward port 80 to the IP address of your Netmonitor.

You should consult your routers manual for information on how to set-up the port forwarding feature.

3 Logging into your Netmonitor

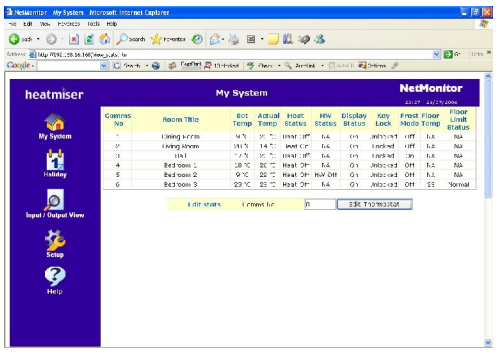
Type the IP address of your Netmonitor in to the address field of your browser

Default IP: 192.168.0.168
Default Username: admin
Password: admin

4 Netmonitor Set-up

When you access the Netmonitor you will be presented with a screen similar to that shown here.

We now need to configure the Netmonitor according to how it is being used.



In this section, we will configure.

a. Thermostat set-up
b. Sensor Set-up
c. Inputs Set-up
d. Outputs Set-up
e. Email Set-up
f. SMS Set-up (Netmonitor +)

Thermostat Set-up

We need to tell the Netmonitor how many thermostats are connected. To do this follow the steps below.

- Click the Set-Up Icon
- You will see this box

- Enter the Comms No (This is the unique thermostat comms number)
- Enter the Room Title
- Enter 1 to Enable or 0 to Disable this thermostat
- Repeat for all thermostats connected
- Select Update Thermostat

Sensor Set-up

You can connect up to 6 Heatmiser sensors to the Netmonitor for monitoring purposes. A table below describes the sensors available.

Sensor Part Number	Description
Heatmiser Internal Sensor	Used to measure air sensor For internal use only
Heatmiser Immersion Sensor	Used to measure water flow temperature Supplied with a pocket for immersing the probe in to pipe-work
Heatmiser Clamp On Sensor	Used to measure water temperature in pipes. Designed to clamp on to the outside of pipe-work.
Heatmiser External Sensor	Used to measure external air temperature

Reset IP / User Name & Passcode

If you forget or misplace the IP address of your Netmonitor or User Name and Passcode you should follow these steps to reset to the factory defaults.

1. Press and hold down the Reset IP button which is located at the top right of the PCB
2. Power off the Netmonitor whilst the Reset IP button is pressed.
3. Re-power the Netmonitor and hold the Reset IP button for 5 seconds

To set-up the Sensors, follow the steps below;

- Click the Setup Icon
- Click the Input / Output Setup Icon

No.	Title	Actual Temp	Alarm (0:Disable 1:Enable)	High Limit	Low Limit	High Alarm Output (0:none 1-6:Output)	Low Alarm Output (0:none 1-6:Output)	Calibration	SMS (0:Disable 1:Enable)	Email (0:Disable 1:Enable)
1	Sensor 1	NC	1	35	5	1	0	0	0	0
2	Sensor 2	NC	1	38	5	1	1	-7	0	0
3	Sensor 3	NC	1	35	5	1	0	0	0	0
4	Sensor 4	NC	1	35	5	1	0	0	0	0
5	Sensor 5	NC	1	35	5	1	0	0	0	0
6	Sensor 6	NC	1	35	5	1	0	0	0	0

- You can now enter the Title for each sensor connected.
- You can also select whether you wish to enable this sensor as an alarm
- You can also select the High Limit and Low Limit for this sensor
- You can also select if you would like to enable a Netmonitor Output should the High or Low limit be reached. (Entering 2 in the High Alarm Output means that Output 2 will be activated when the High Limit is reached)
- Calibration is used to calibrate the temperature sensor if required
- SMS – This function will only work on the Netmonitor + Enabling this means the Netmonitor will send a Text Message if either the High or Low limit is reached
- Email – Enabling this means the Netmonitor will send an Email if either the High or Low limit is reached

- Click Update Netmonitor to save the settings.

Input Set-up

The Netmonitor has 6 inputs which can be used for various applications. For example, wiring your security system to the Netmonitor means that you can receive notification by email/sms should your alarm be triggered.

To set-up the Netmonitor Inputs, follow these steps.

- Click the Setup Icon
- Click the Input / Output Setup Icon

Inputs Setup							
No.	Title	Actual	Alarm Mode (0:Normally Open 1:Normally Closed)	Alarm (0:Disable 1:Enable)	SMS (0:Disable 1:Enable)	Email (0:Disable 1:Enable)	Output (0:none 1-6:Output)
1	Input 1	Open	0	1	1	0	1
2	Input 2	Open	0	1	1	0	2
3	Input 3	Open	0	1	1	0	3
4	Input 4	Open	0	1	1	0	4
5	Input 5	Open	0	1	1	0	5
6	Input 6	Open	1	1	1	0	6

- You can now enter the title for each input on the Netmonitor
- You can select whether the input is a normally open or normally closed contact
- You can select to enable or disable the SMS* and Email notification when an input is made (* Netmonitor + Only)
- You can select which output is activated when an input is made
- You should click Update Netmonitor to save the settings

Output Set-up

The Heatmiser Netmonitor has 6 outputs which can be used for various applications.

- Click the Setup Icon
- Click the Input / Output Icon
- You can now enter the title for each output
- You should click Update Netmonitor to save the settings.

Outputs Setup	
No.	Title
1	Output 1
2	Output 2
3	Output 3
4	Output 4
5	Output 5
6	Output 6

Email Set-Up

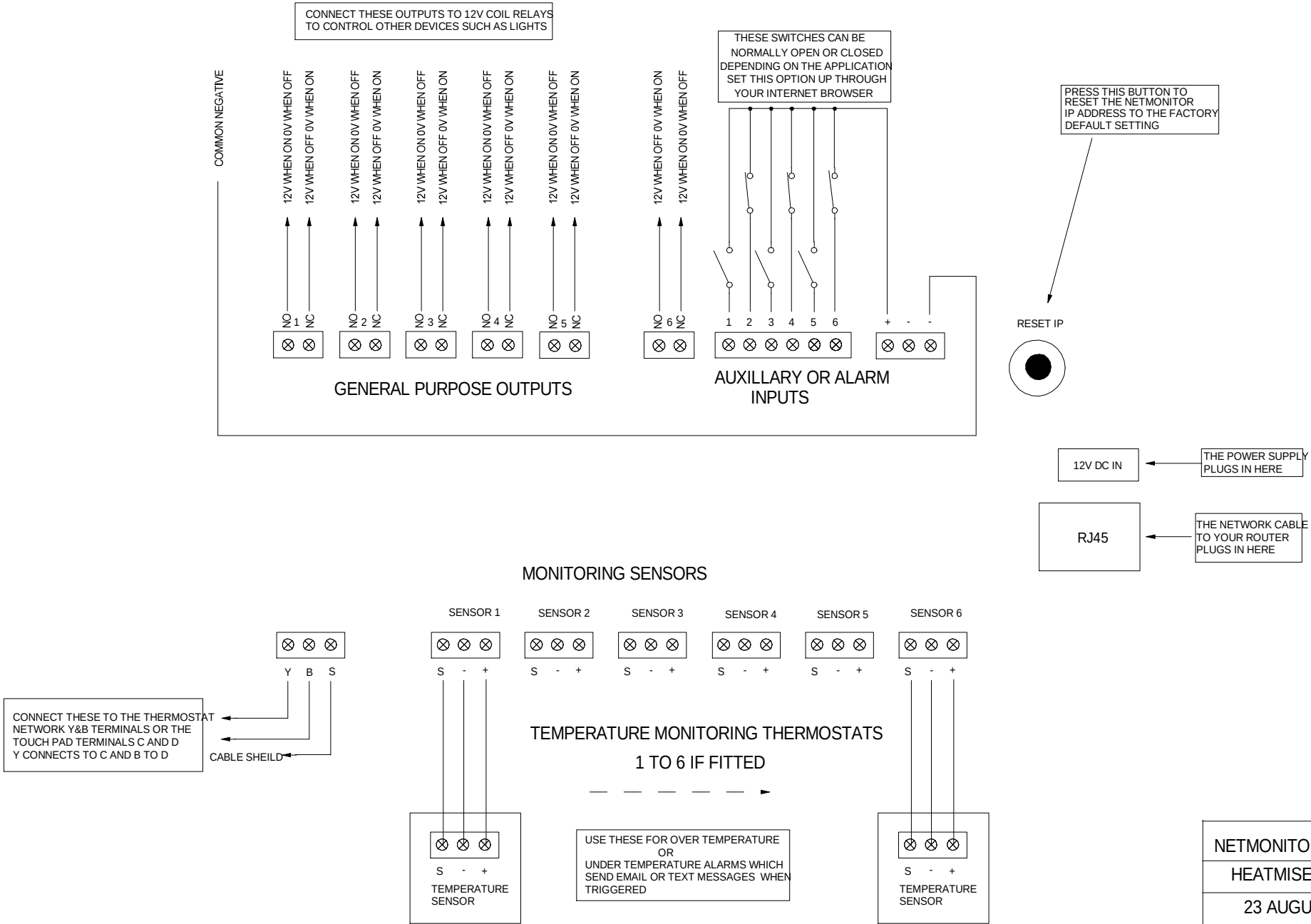
- Click the Setup Icon
- Click the Email Icon

The Heatmiser Netmonitor has 6 email address settings.
Activated alarms will be sent to the addresses listed here.

SMS Set-Up (Netmonitor + Only)

- Click the Setup Icon
- Click the SMS Icon

The Heatmiser Netmonitor has 6 mobile phone settings.
Activated alarms will be sent to these mobiles.

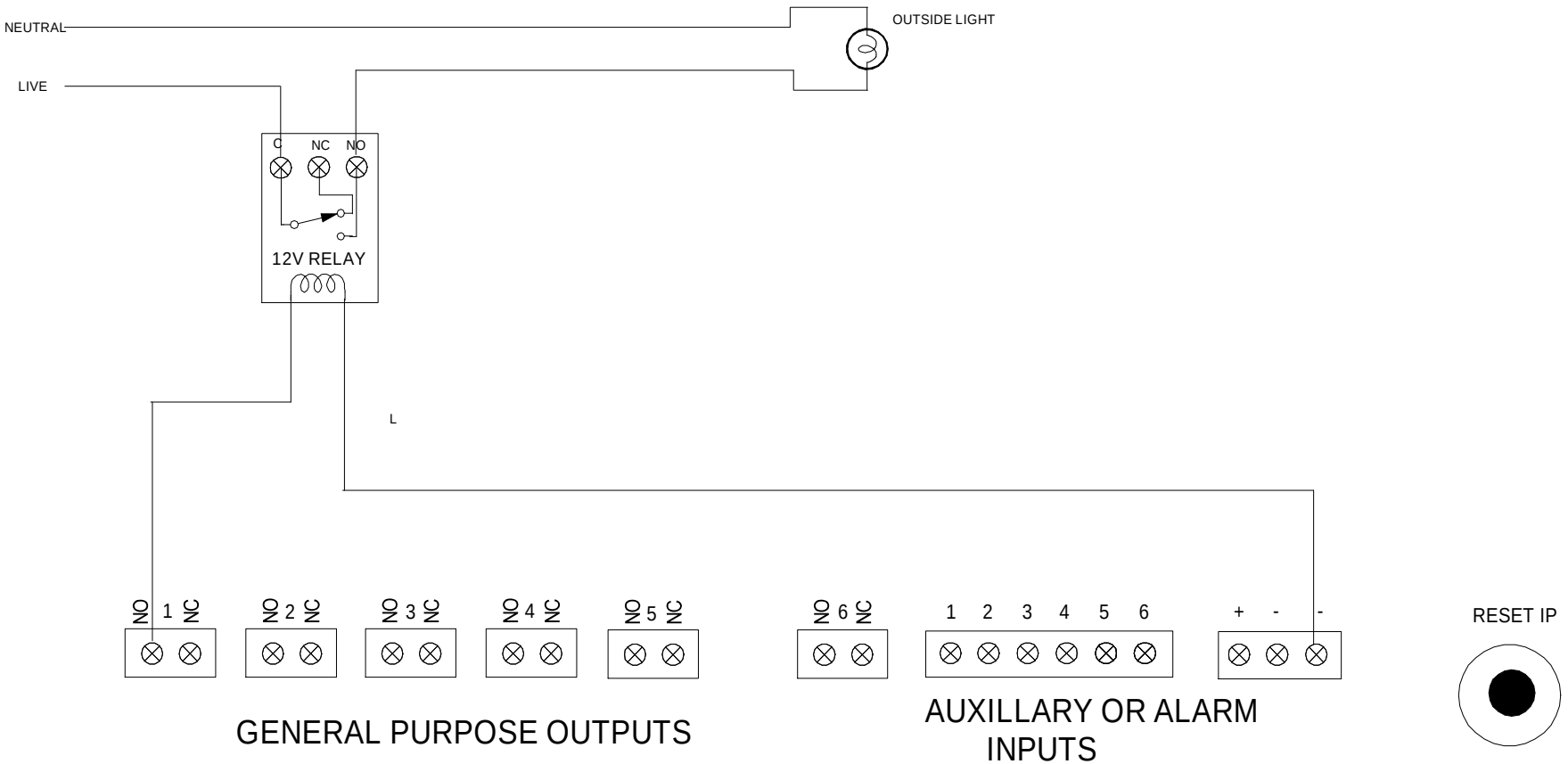


NETMONITOR OVERVIEW

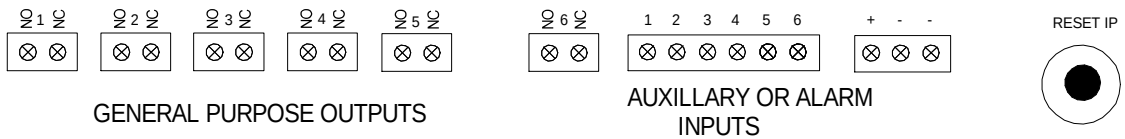
HEATMISER UK LTD

23 AUGUST 2006

WIRING EXAMPLE : CONTROLLING AN OUTSIDE LIGHT



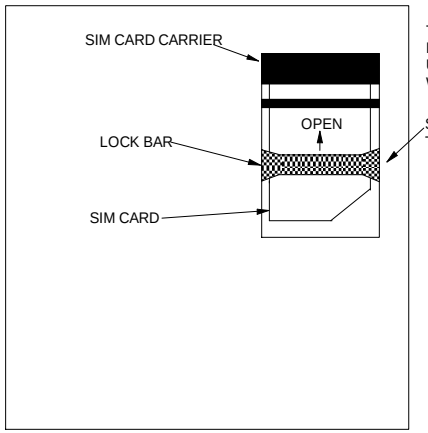
WIRING GP OUTPUTS
HEATMISER UK LTD
23 AUGUST 2006



GENERAL PURPOSE OUTPUTS

AUXILLARY OR ALARM INPUTS

RESET IP

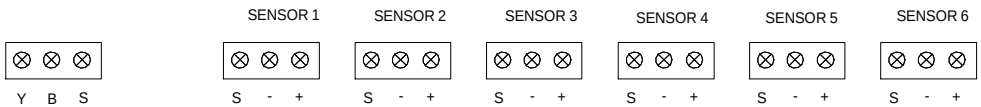


TO INSERT SIM CARD SLIDE THE CARRIER LOCK BAR UP, LIFT THE HINGED CARRIER UP AND SLIDE THE SIM CARD INTO IT WITH THE METAL PADS FACING DOWN

12V DC IN

RJ45

MONITORING SENSORS



SIM CARD INSERTION
HEATMISER UK LTD
23 AUGUST 2006