

Multi-Link



Setup Guide

Revision 1.0

Contents

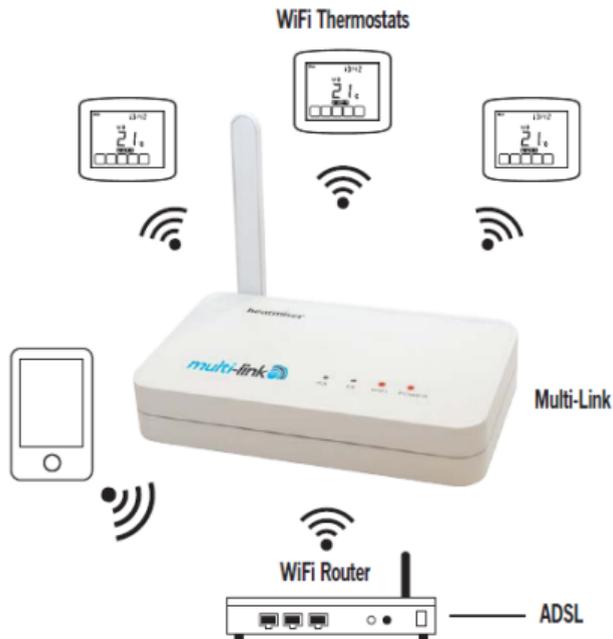
What is Multi-Link?	2
Setting up the Multi-Link (Steps 1-3)	3 - 4
Security Types Explained	4 - 5
Setting up the Multi-Link (Steps 4-7)	6 - 9
Adding WiFi thermostats to the Multi-Link	9
Checking WiFi Connection	9
App Connection	10
Remote Access	11
Troubleshooting	12

What is Multi-Link?

The Multi-Link allows you to control multiple Heatmiser WiFi thermostats via free smartphone application.

Up to 32 thermostats in total can be controlled.

The Multi-Link acts as a gateway to your WiFi Network by taking care of the thermostat port forwarding, this drastically simplifies the setup procedure.



Setting up the Multi-Link

Step 1

Download and install the network utility for the Multi-Link from our web site.
www.heatmiser.co.uk/wifi

Step 2

Connect the Multi-Link to your pc with the USB cable provided, this will power the device from the USB port & will allow you to test the Wi-Fi connection.

On the Utility press Read to view the current Multi-Link configuration.

Heatmiser Multi-Link Utility (V1.1)

heatmiser
WiFi Thermostat

Multi-Link Version 1.0

SSID: heatmiser

Security Option: WPA

WEP Format: ASCII HEX Number

Security Code: heatmiser

IP Address: 192 . 168 . 1 . 100

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 1

DNS: 192 . 168 . 1 . 1

App Pin Access: 1234

PIN must match that set in your WiFi thermostats

GMT Correction: Enabled Disabled

Read

Help

IP Address	Zone Name
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Add

Edit

Delete

Apply

Enter the IP address of your Multi-Link

Step 3

Enter the SSID, Security Type and Security Code of your wireless network. These settings can be found in your wireless router, consult your router manual for more information.

Security Types explained

There are currently 4 methods of securing your wireless connection in common use

These are :

OPEN/DISABLED (not recommended)

W.E.P. (lowest security level)

W.P.A. (medium security)

W.P.A.2. (highest security)

Your choice of security settings in the Multi-Link must match the setting in your router. Quite often you will find WPA and WPA2 as a single option in the router, this is perfectly normal the router knows which one to use, and you can therefore set the Multi-Link up using either one.

...Security Types Continued

The password can be up to 63 characters in length including spaces _ . / \ characters.

The W.E.P. option is not as simple, some routers generate a hidden password from a pass phrase whilst others require a 10 or 26 digit hex password and won't accept anything else.

Your Multi-Link utility can deal with both options.

The following restrictions apply:

A hex password can only be made up of the numbers 0 to 9 and the letters a to f, lower case only.

Hex passwords can only be 10 characters or 26 characters in length.

If a passphrase is used it must be either 5 or 13 characters in length but can be any letter or number.

Your Multi-Link will automatically calculate the same hidden password your router creates from the same phrase.

You will find most routers have these same restrictions.

Step 4

It is likely that your network will be configured to operate on a DHCP basis – this means your router automatically issues an IP address to a device that successfully connects to the network.

Your Multi-Link needs a fixed IP address in order for local and remote access to operate, The fixed IP address needs to be outside of the router DHCP range, so you will need to set this up manually.

Log into your wireless router and navigate to the LAN settings page. You should see an option for DHCP setup. This should detail the IP range that can be assigned to devices connecting to the network.

As an example, you may have an IP starting range 192.168.1.1 and ending 192.168.1.99

This would mean you can safely provide your Multi-Link the IP address 192.168.1.100 as no other devices will be assigned this address by the router.

If your DHCP range is from 192.168.1.1 to 192.168.1.253 you cannot use 254 or above, you will need to change the DHCP to a lower range, take care not to change any of the first 3 sets of numbers.

Tip! When setting up an IP address, the first three sets of numbers must be the same as the router IP, the fourth set must not be used elsewhere on the network.

Step 5

Enter the Subnet mask for the network, this information can be found in your wireless router.

Step 6

You need to enter the IP address of your gateway and DNS.
In most cases, this is the IP address of your wireless router.

Step 7 App Pin Access

The access PIN is required when you are using the multi-zone app and helps secure your system. This PIN number should be the same number that has been used for the WiFi Thermostats on the system.

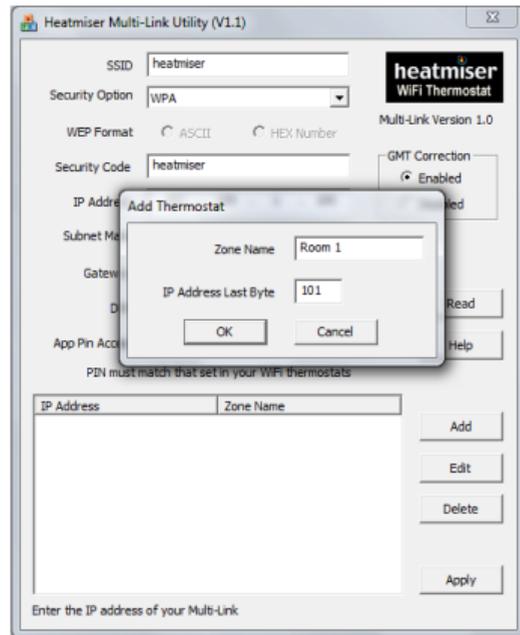
Step 8 Adding WiFi thermostats to the Multi-Link

Click the Add button, now enter the room title and the last three digits of the WiFi thermostat IP address, then press OK.

This zone will then appear in the window at the bottom of the utility.

Repeat this process for all of the WiFi thermostats on the system.

You have the option to select any of the zones in this window and Edit or Delete if necessary.



Step 9

Checking WiFi Connection

Once you have entered the details of your WiFi network & added the zones to the system press Apply. “Update successful” will appear at the bottom on the utility.

Disconnect the USB cable from the Multi-Link, wait 5 seconds then reconnect it.

Once the Multi-Link has rebooted wait approximately one minute, the Wi-Fi LED on the Multi-Link will light up indicating that the Multi-Link has successfully connected to your WiFi network.

Heatmiser Multi-Link Utility (V1.1)

SSID: heatmiser

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Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 1

DNS: 192 . 168 . 1 . 1

App Pin Access: 1234

Multi-Link Version 1.0

GMT Correction: Enabled Disabled

Read

Help

IP Address	Zone Name
192.168.1.101	Room 1
192.168.1.102	Room 2
192.168.1.103	Room 3

Add

Edit

Delete

Apply

Update successful, please cycle the power on your Multi-Link

Step 10

App Connection

Once the Multi-Link has successfully connected to your network you can now disconnect the USB cable & power the Multi-Link via the power supply provided.

Launch the Multi-Zone App & enter the IP address & PIN information.

The LAN IP will be the fixed IP address you assigned to the Multi-Link.

The WAN IP will be your fixed IP address for your network or your dynamic DNS address, when connecting remotely.

Once this information has been entered press Connect, this will then connect to the Multi-Link & display the WiFi thermostats on your system.

Step 11

Port Forwarding for Remote Access

In order to access your system from outside your home, you need to forward port 8082 in your router to the IP of the Multi-Link.

For more information on port forwarding, consult your router operating manual.

Troubleshooting

The Multi-Link does not connect to the WiFi network or intermittently connects

- Ensure the Multi-Link is powered up and the power LED is on.
- Ensure the SSID & Security Code match exactly to the information set on the router.
- Ensure the IP address of the Multi-Link is in the same range as the wireless network & does not conflict with any other device on the network.
- Ensure the IP address assigned to the Multi-Link is outside the DHCP range of the router. (Setting Up the Multi-Link Step 4)

The app will not connect to the Multi-Zone system

- Ensure the smartphone is connected to the WiFi network (**LAN access**) or 3G network (**WAN access**)
- Ensure the following information entered on the app is correct:
 - LAN - Fixed IP address assigned to the Multi-Link.
 - WAN - IP or Dynamic address used when connecting remotely.
 - PIN - 4 Digit number, same as the WiFi thermostats on the system.

The Multi-Zone app does not show any thermostat information

- Ensure the PIN number stored in the Multi-Link is the same PIN that is stored in the WiFi thermostats.
- Ensure the thermostat IP address information stored in the Multi-Link is in the same network range.

Heatmiser UK Ltd

Units 8 & 9 Hurstwood Court
Mercer Way
Shadsworth Business Park
Blackburn
BB1 2QU
www.heatmiser.co.uk
T: 01254 669090 F: 01254 669091

