

Single Channel : miGenie Wish 1 T714R
Dual Channel: miGenie Wish 2 T724R
Multi Channel: miGenie Wish 3 T744R



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Installer Guide 06490211001 IssD



INSTALLATION Guide

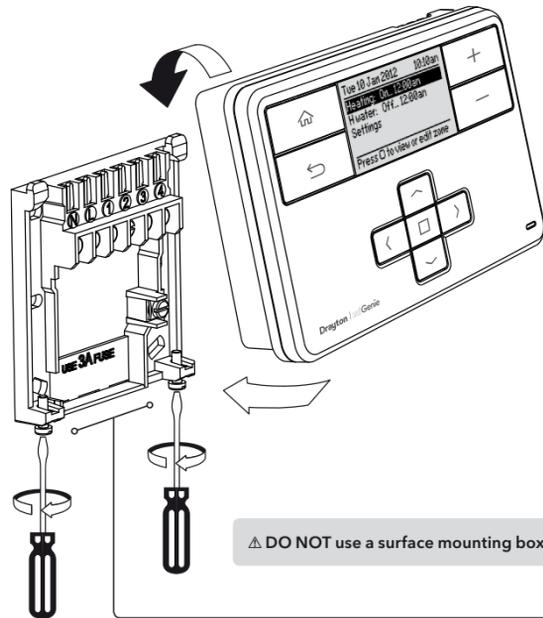
Step 1: Mounting the Wall-plate

IMPORTANT:

Installation must only be carried out by a qualified electrician or heating engineer.

Make sure mains input has a 3 amp fuse.

CAUTION! Before installation, make sure the mains supply is switched off!



Option 1: Fitting a new wall-plate

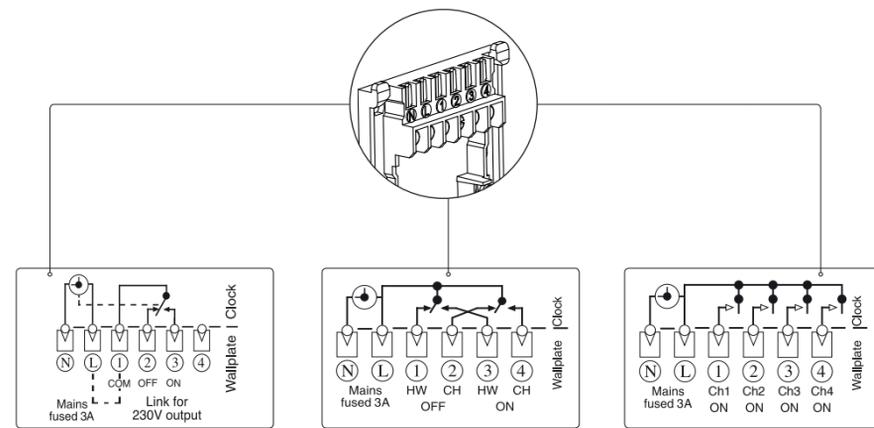
The ideal location is 1.2m above floor level, with reasonable lighting, good access, no condensation, no extremes of temperature and a supporting surface that fully covers the back of the unit. Position with 70mm clearance to the right, 25mm above and sufficient room to access the securing screws underneath. Fix, with terminals at the top, either direct to a flat wall using wall plugs and No. 6 x 1" (25mm) woodscrews, or on a flush mounting single conduit box type UA1 (BS4662) using M3.5 x 14 bolts. Check the 3A fuse, and switch on the mains.

Option 2: Using an existing industry standard wall-plate

Loosen the securing screws on the old programmer and unplug it. Check that there is 70mm clearance to the right of the wall-plate and 25mm above it. Check the wiring diagram for your product model to compare terminals and, if necessary, change the wiring of the wall-plate to suit. Now fit the miGenie controller into the wall-plate and tighten the securing screws.

Check the 3A fuse, and switch on the mains.

Step 2: Wiring



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Connect the wiring as shown above.

T714R only: Note that the output contacts are voltage-free, so power needs to be put on to Terminal 1 either by linking from Terminal L or from a separate supply with a 3A fuse.

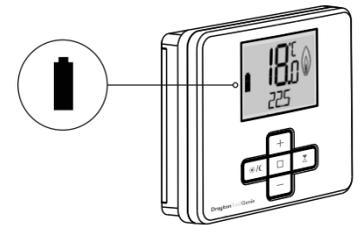
IMPORTANT:

Always switch off the mains before removing the miGenie controller and never fit it to a live wall-plate!

Step 3: miGenie Thermostats - Checking the batteries

How do I know when to change the batteries?

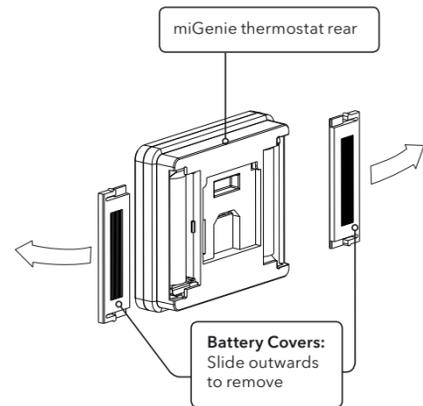
When the batteries start to run low a battery icon will flash in the display, to indicate "low battery" during this time the miGenie thermostat will function normally. Please replace batteries with 2 x 1.5V IEC LR6 (AA) Alkaline batteries. When the battery icon alone is shown in the display, the batteries are completely exhausted and the miGenie thermostat will cease to function (see below). Re-activate by replacing the batteries.



Step 3: continued...

How to replace the batteries

Remove the battery covers as shown. Replace the spent batteries with 2 x 1.5V IEC LR6 (AA) Alkaline batteries ensuring correct orientation. Replace the battery covers pressing fully home.



Battery Handling

Batteries, rechargeable or not, should not be disposed of into ordinary household waste. Instead, they must be recycled properly to protect the environment and cut down the waste of precious resources.

Your local waste management authority can supply details concerning the proper disposal of batteries.

In compliance with the EU Directive 2006/66/EC, the button cell battery located on the printed circuit board inside the product, can be removed at the end of the product life, by professional personnel only.

Step 4: Signal Strength

The miGenie thermostat(s) & miGenie gateway are pre-bound to the miGenie controller in the factory so they just need to be positioned in the best place for wireless communication. To help with this there is a built in signal strength indicator, available in the Zone Settings menu on the miGenie controller, as shown. It is recommended that the signal strength is Good or Very Good to ensure communication is maintained.

Signal strength	1:48pm
Heating:	Very Good
HWater:	Good
LivRoom:	Poor
Gateway:	No signal
Press to return	

The signal strength can also be seen on the miGenie thermostat.

To enter the Signal Strength menu

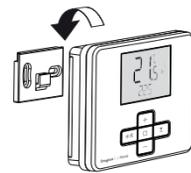
- Press + & - for approx. 5 secs, then scroll (+/-) to show 10. ADV-SET,
- Press to enter the Advanced Settings menu,
- Press +/- until 19 WIRELESS is shown,
- Press to enter the Wireless menu,
- Press +/- to show 21 SIG-LEVEL as shown,
- Press to see the current signal strength.



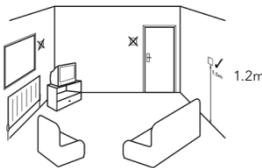
If POOR is displayed, look for a better location. If NO SIGNAL is displayed, try connecting again with the room unit in a different position. To exit, press + & - keys for approx. 5 seconds. If there is no key pressed for 2 minutes, the menu will be exited automatically.

Step 5: Mounting Options

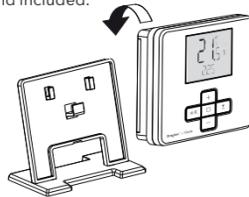
Once the best position has been identified, the miGenie thermostat should be fixed to the wall using the wall bracket as shown.



Care should be taken to mount the miGenie thermostat in a position which is not subject to direct sunlight or draughts. Preferably it should be mounted on an inside wall about 1.2m (4ft) above the floor in a position where it can respond to room temperature but away from the direct influence of radiators or other appliances giving off heat.



NB. miGenie thermostat can also be positioned using the table stand included.

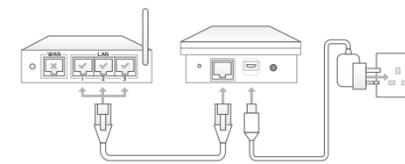


It has to be placed in a location where it will be able to control the room temperature.

Step 6: Install the miGenie Gateway & miGenie app

Location & Wiring

The miGenie gateway is designed to be placed on a flat surface and should be located next to the customer's internet router. A short ethernet cable is provided to connect the miGenie gateway to a spare LAN port on the back of the internet router (see image below).



The miGenie gateway is powered from a standard mains wall socket using the supplied adaptor plug.

Status

The miGenie gateway reports status information on the LED located on the rear of the product. An overview of the status information is given in the table below:

LED State (During Setup)	Activity
Cycling through Red, Amber, Green	The miGenie gateway is attempting to bind to a miGenie Controller. Can be started manually by pressing and holding the gateway button for 5 seconds.
Off	Indicates that either; - the miGenie gateway is not connected to the miGenie controller, or - the miGenie gateway has not been registered with an internet account and app.
Green flashing every 1 second	This occurs when the button on the rear of the gateway is pressed. The miGenie gateway is attempting to connect to a miGenie app via the internet. This mode will time out after 5 minutes.
LED State (During normal use)	Activity
Green	Indicates 'all OK' - the gateway is connected to the miGenie controller and internet control is available.
Solid Red	No RF signal - the device should be relocated closer to the miGenie controller.
Solid Amber	No internet connection - check the status of the local internet router and all cabling.

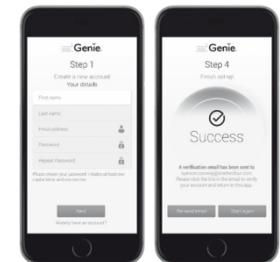
Creating a User Account

Note: You can only create a User Account when your miGenie Wireless Pack has been fully installed.

You will first need to download the Drayton miGenie app for your smartphone or tablet which is available from the App Store or Google Play.

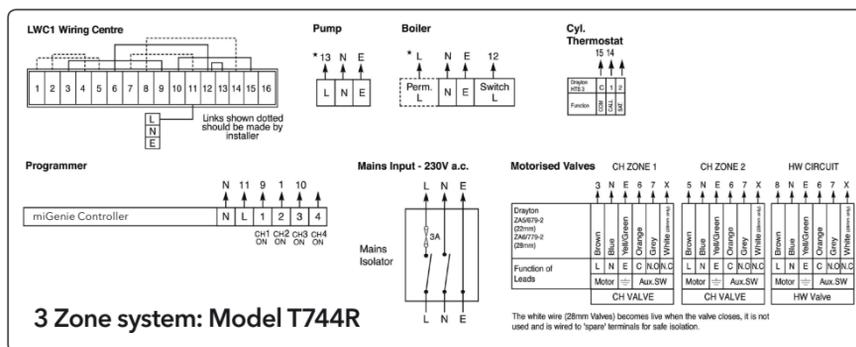
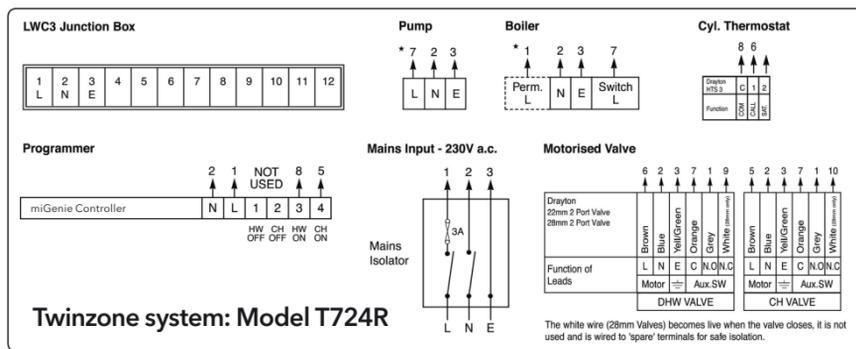
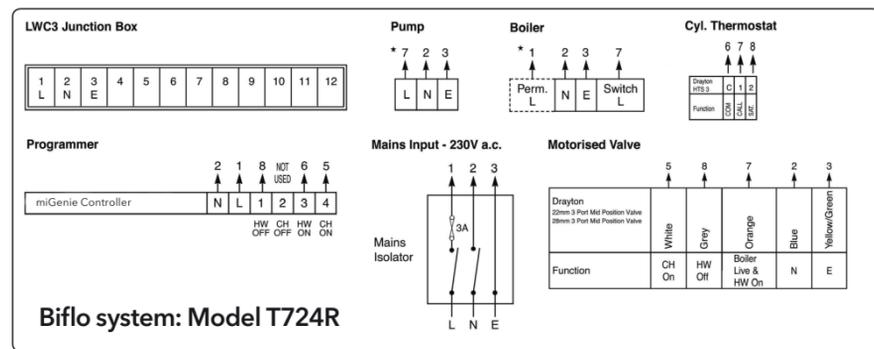


The app guides you through the registration process which connects your miGenie system to your e-mail address. During this process you will be asked to press the button on the back of the miGenie gateway which will flash green until the connection is made. A verification e-mail will be sent to you to confirm your e-mail address before the app can be used.



Once the gateway has been registered the system is ready to control your heating and hot water. To control your miGenie system from additional smartphones or tablets simply download and install the app and login using the same e-mail address and password.

Step 7: Connection Charts



IMPORTANT:

Always switch off the mains before removing the miGenie Controller - and never fit it to a live wall-plate!

Arrowed numbers relate to the junction box.

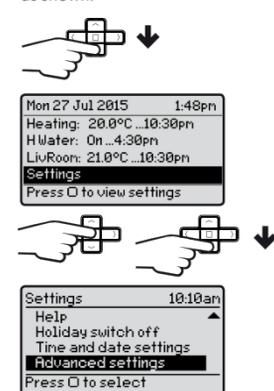
* Consult boiler handbook for details of pump overrun wiring.

Make the wiring connections, as above, for the appropriate system. For surface wiring, snap out the cable entry strip on the bottom edge of the wall-plate. miGenie controllers are double-insulated and need no earth connection, but an earthing continuity (loop) terminal is provided for convenience.

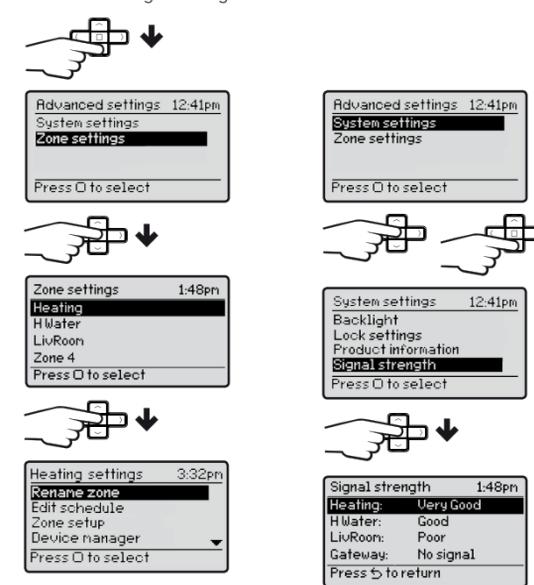
After wiring, clip on the unit and tighten the securing screws. Check the mains input has a 3A fuse, and switch on the mains.

Step 8: Advanced Settings

From the Home screen, select **Settings**, then **Advanced settings** as shown.



From here you can edit the assigned zones, rename them if required and check the Signal strength.



Select a name from the list or select 'Custom zone name' to create a new zone name.



Step 8: Advanced Settings

Feature	Description	Factory Pre-Set
Advanced settings	CAUTION! These settings should only be modified by a qualified person. They can influence the safety and the proper functioning of the system	
System settings	These are settings applicable to the system controller unit, global settings for bound nodes and internet connection settings	
Backlight	miGenie controller options are: On with timeout, Always on, Always off miGenie thermostat options are: On with timeout, always off	On with timeout
Lock settings	Enable or disable the screen lock for the miGenie controller. To lock: enter a 3 digit code for protection. To unlock: enter the 3 digit code	000 Master code 401
Product Information	View product details for devices in the system e.g. part number, firmware version, etc.	
Signal strength	Informs about the current signal strength of the products connected to the system	
Internet options	Sub-menu relating to the connection of an internet gateway - enables a gateway to be added, replaced or removed with an indication of signal strength.	
System reset	Will reset all settings to factory pre-sets	
Zone settings	Customise each zone according to personal preferences These are setting which will be applied to a connected thermostat	
Select zone	Select the zone for the following actions	
Rename zone	To rename an existing zone	Heating, H Water, LivRoom
Edit schedule	Update the schedule for the zone	
Zone setup	Contains detailed zone setup values - see below for descriptions	
Minimum temperature	The minimum set temperature that can be set for the zone	5°C
Maximum temperature	The maximum set temperature that can be set for the zone	30°C
Eco temperature	Temperature used for energy saving events e.g. during the night	16°C
Comfort temperature	Temperature used for comfort events e.g. during the day	21°C
Offset temperature	Adjust the displayed temperature to personal needs	0°C

Feature	Description	Factory Pre-Set
Device manager	Add, replace or remove RF room thermostats	Pre-bound
Signal strength	Displays the signal strength of the selected zone, if a miGenie thermostat is connected to the zone	
Channel settings (within Zone settings)	Customise the application type and associated control settings for zones following this application type	
Application type	Selecting the application type pre-configures the available zone information	Zone 1: Heating; Zone 2: Hot Water Zone 3: Heating Zone 4: Unused
Control type *Heating zones only	Select TPI or TP. TPI = Use if the house usually reaches setpoint in ≤ 1 hour. TP = Use if the house usually reaches setpoint in ≥ 1 hour.	TPI
Cycle rate (only when control type is TPI or TP)	Select 3 cph (cycles per hour), 6 cph or 12 cph	6 cph
Frost temperature	Disable frost protection or set between 3-10°C	5°C
Valve protection	The output will be activated for the specified time (in minutes). This will happen weekly, related to the last action of the output. Select 0 to 10 minutes.	0 mins (Off)

Add and Remove Devices

(NB: only required if adding a new thermostat. All items in the Wish 1, 2 & 3 packs are pre-bound)

To manually connect a miGenie thermostat, insert the batteries into the thermostat and wait for "Bind?" to be displayed, press (□) to select. You will also need to enter the binding process on the miGenie Controller, by entering the Advanced Settings menu, then the Zone settings and select the Device manager option. In this screen select the Add thermostat option to complete the binding process. To remove a miGenie Thermostat enter the Device manager option in the miGenie controller using the same sequence detailed above. The option will now display Remove Thermostat, select this option and the thermostat will be removed from the system.

To manually connect a miGenie gateway, press and hold the button on the rear of the gateway for more than 5 seconds, the LED will repeatedly flash red-yellow-green. You will also need to enter the binding process on the miGenie Controller, by entering the Advanced Settings menu, then System settings, then Internet options. In this screen select the Add gateway option to complete the binding process. To remove a miGenie Gateway enter the Internet options menu in the miGenie controller using the same sequence detailed above. The menu will display Remove gateway, select this option and the gateway will be removed from the system.

Technical Data

	miGenie controller	miGenie thermostat	miGenie gateway
Power Supply	230V a.c. +10% -10% 50Hz	2 X 1.5V IEC LR6(AA) alkaline batteries	5V d.c. 1A USB Micro-B
Switch Rating	2 (1) A 230V a.c. each switch		N/A
Wiring	Fixed wiring only, to comply with current IET regulations (BS7671)		No wiring required
Battery life	N/A	2 years typical	N/A
Ambient Temperature			
Operating:	0° to 45°C (miGenie controller 3 / 4 channel 0° to 40°C)		
Storage:	-20°C to 55°C		
Ambient humidity (non condensing)		Operating 25% to 90%	Storage 15% to 95%
Temperature Range	5°C - 30°C		N/A
Control Accuracy	<0.6°C at 4° / hour		N/A
Timing resolution	1 minute		N/A
Temperature resolution	0.5°C		N/A
Ball Pressure Test Temperature		75°C	
Pollution Degree		2	
Energy Class	IV = 2% (Acc. EU 811/2013, 812/2013, 813/2013, 814/2013)		N/A
Software Class		A	
Without Mains Power	Display: blank; Time: always kept Program times: always preserved		N/A
Rated Impulse Voltage	2.5kV		N/A
Radio Frequency		868.3MHz (Bi-directional communication)	
Radio Signal Range	30m typically. The range may be affected by the composition / density and the number of walls between the miGenie products		
Mounting	Industry standard wall plate	Wall bracket or table stand	Table top
Relevant EC Directives:	2014/35/EC Low Voltage Directive 2014/30/EC Electromagnetic Compatibility Directive 1999/5/EC R&TTE Directive 2013/56/EU Battery Directive 2011/65/EU RoHS Directive		
Applied Standards:	EN60730-1; EN60730-2-7; EN60730-2-9 EN 300 220-2; EN 301 489-3		