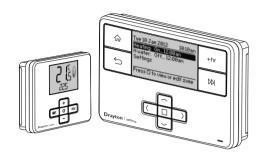
MiTime Programmer Series **RF Packs**

Single Channel: MiTime T710R Dual Channel: MiTime T720R, T720M Multi Channel: MiTime T740R, T740M



Customer Service Tel: 0845 130 5522 Customer Service Fax: 0845 130 0622 Technical Helpline: 0845 130 7722 Website: www.draytoncontrols.co.uk E-mail: customer.care@invensvs.com

@DraytonControls /DraytonControls

EU Design Regs:- 002180638-1/2/3 Installer Guide 06490194001 Iss G



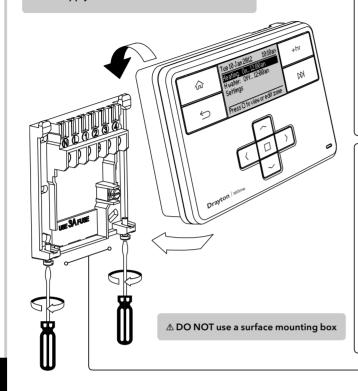
⚠ IMPORTANT:

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!

Step 1: Mounting the Wall-plate



Option 1: Fitting a new wall-plate

flush mounting single conduit box

industry standard wall-plate

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 plug the MiTime unit into the wall-plate and tighter

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 type UA1 (BS4662) using M3.5 x 14 bolts. Check the 3A fuse, and switch on the mains.

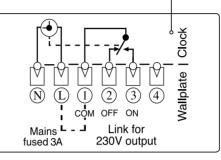
Option 2: Using an existing

Loosen the securing screws

Check the 3A fuse, and switch on

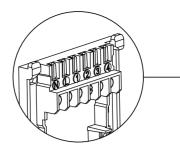
Step 2: Wiring

Single Channel: MiTime T710R

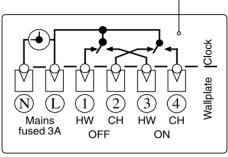


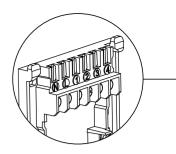
Connect the wiring as shown above

T710R only: Note that the output contacts are voltagefree, 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.

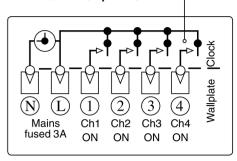


Dual Channel: MiTime T720R, T720M





Multi Channel: MiTime T740R, T740M



⚠ IMPORTANT:

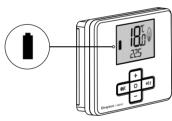
Always switch off the mains before removing the MiTime programmer - and never fit it to a live wall-plate!

► INSTALLATION Guide

Step 3: Wireless 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 MiStat will function normally (see fig. to right). 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 MiStat will cease to function (see below). Re-activate by replacing the batteries.



How to replace the batteries

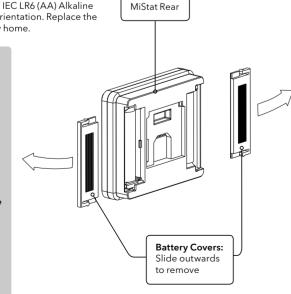
Remove the battery covers using a coin. Replace the spent batteries with 2 x 1 5V IEC I R6 (AA) Alkaline batteries ensuring correct orientation. Replace the battery covers pressing fully home.



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

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 professiona



Step 4: Signal Strength

The MiStat Room & Cylinder thermostats are pre-bound to the MiTime programmer 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 Installer settings menu on the MiTime programmer, as shown. It is recommended that the signal strength is Good or Very Good to ensure ongoing communication is

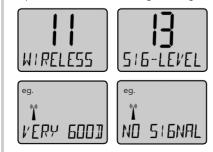
Signalstre	ngth	12:01pm
Heating:	Very	good
H Water:	Good	
Bed1:	Poor	
Bed2:	No sig	mal
Press 5 to return		

The signal strength can also be seen on the MiStat thermostat

To enter signal strength menu

- Press + & for approx. 5 secs, then scroll (+/-) to show INST-S,
- press (□) to enter the installer menu • Press +/- until 11 WIRELESS is shown,
- press (□) to enter,
- press +/- to show 13 SIG-LEVEL as shown,
- press (

) to see the current signal strength



If POOR is displayed, look for a better location

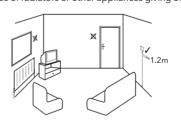
If NO SIGNAL is displayed, try connecting again with the room unit in a different position. To exit, press + & - keys for approx. 5 seconds. If there is no key pressed for 2 minutes, the system will exit the menu.

Step 5: Mounting Options →

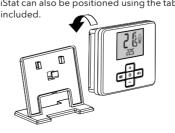
Once the best position has been identified, the MiStat should be fixed to the wall using the wall bracket as shown. The cylinder thermostat (T720M, T740M only) should be mounted close to the cylinder using the



Care should be taken to mount the 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. MiStat can also be positioned using the table

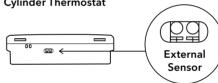


It has to be placed in a location where it will be able to control the room temperature.

Step 6: Cylinder Sensor (T720M, T740M only)

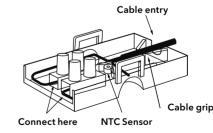
Wiring

Cylinder Thermostat

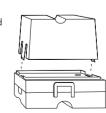


Cylinder Thermostat Sensor

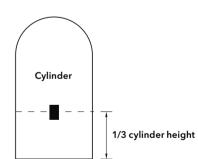
Locate the external sensor terminal block on the lower edge of the MiStat C thermostat, connect a 2-core cable, cut to the required length to reach the sensor and fold wires back through the cable grip & out through the cable entry, re-assemble the housing



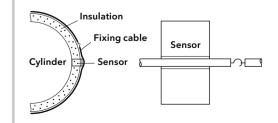
Clip the spacer provided



The sensor should be installed approximately one third of the way up the hot water cylinder. With pre insulated cylinders, mark the position and size, and remove just enough insulation to allow the sensor to fit against the metal of the cylinder in the recess formed.

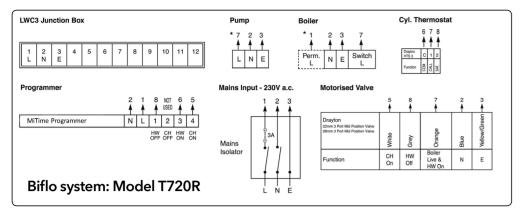


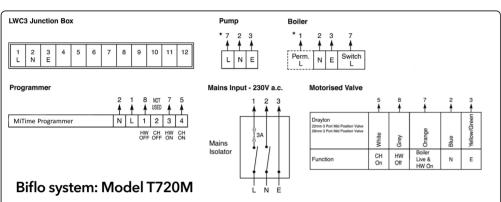
The plastic covered spring fixing cable should be cut to an un-stretched length of approximately 60-75mm (21/2"-3") less than the circumference of the cylinder and the hook and eyelet should be screwed into the ends. Stretch the cable round the cylinder, over the insulation, and position it in the groove across the front of the sensor housing, Engage the hook and



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er	-			Finished Size	420x297mm	matr!x
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ation Date				Bleed	3mm	

Step 7: Connection Charts





⚠ IMPORTANT:

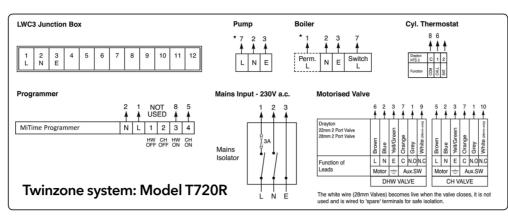
Always switch off the mains before removing the MiTime programmer - and never fit it to a live wall-plate!

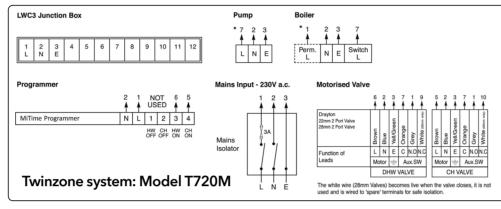
Arrowed numbers relate to the junction box.

* Consult boiler handbook for details of pump overrun wiring.

If using the Service feature,

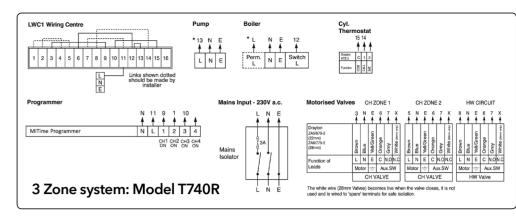
remember to set the **Password**

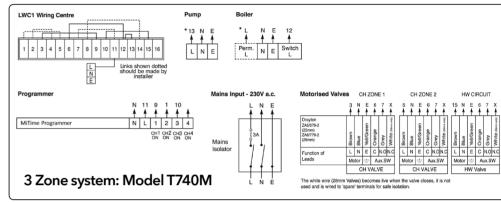




Make the wiring connections, as above, for the appropriate system. For surface wiring, snap out the cable entry strip on the bottom edge of the wall-plate. MiTime units are double-insulated and need no earth connection, but an earthing continuity (loop) terminal is provided for convenience.

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





Step 8: Installer Settings

From the Home screen, select Settings, then Installer settings







From here you can edit the assigned zones, rename them if required and adjust the Service

Installer settings 12:41pm

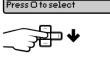


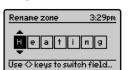
Installersettings 12:41pm











Sistatus: Disabled Si type: Red. comf. Red. comf. duration Si due date: 5.12.2011 Press O to change setting... Service Settings 1:06pm No. of boosts: 10 Audible alarm: Disabled Installer tel: 0175272...



Use <> keys to switch field

Feature:	Des	
Installer Settings	⚠ C . The	
Zone Settings	Cus setti	
Select zone	Sele	
Rename zone	To r	
View Product Information	Viev Firm	
Minimum temp	lt wi	
Maximum temp	lt wi	
Eco temp.	Tem duri	
Comfort temp.	Tem the	
Backlight settings	Ava	
Temp. offset	Adjı	
Screen lock	Ena To L To U	
RF Binding	Bino	
Delete zone (not T710R)	To d	
Add Zone (not T710R)	Add A tir	
System Settings	The	
View product information	Viev Firm	
Backlight settings	Ava Alw	
Control type *Heating zones only	Sele usua hou On/ regu	
Cycle rate (*only when Control type	Sele	

eature:	Description:	Factory Pre-Set:		
nstaller Settings	by a qualified person. If the system.			
Zone Settings	Customise the MiTime according to personal requirements. These are settings which will be applied to a connected room/cylinder stat.			
Select zone	Select a zone for the following actions			
Rename zone	To rename an existing zone	Heating, H Water,Bed 1		
View Product Information	View the product details, e.g. Part number, Firmware revision etc.			
Minimum temp	It will not be possible to set a lower temperature	5C (Cyl stat = 40C)		
Maximum temp	It will not be possible to set a higher temperature	30C (Cyl stat = 70C)		
Eco temp.	Temperature used for energy saving periods e.g. during the night	16C (Cyl stat = N/A)		
Comfort temp.	Temperature used for comfort periods e.g. during the day	21C (Cyl stat = N/A)		
Backlight settings	Available options are: On with timeout, Always Off	On with timeout		
Temp. offset	Adjust the displayed temperature to personal needs	0C (Cyl stat = N/A)		
Screen lock	Enable or disable the lock in the room unit To Lock: Enter a 3 digit code for protection To Unlock: Enter the 3 digit code	000 Master Code 401		
RF Binding	Bind the remote thermostat to the receiver.	Pre-bound		
Delete zone (not T710R)	To delete an existing zone. The last zone cannot be deleted	Min. 1 Zone		
Add Zone not T710R)	Add a new zone, apply a name & bind a thermostat. A time table can be applied.	T720: Max. 2 Zones T740: Max. 4 Zones		
System Settings	These are the settings which will be applied to the MiTime unit			
/iew product nformation	View the product details, e.g. Part number, Firmware revision etc.			
Backlight settings	Available options are: On with timeout, Always On, Always Off	On with timeout		
Control type Heating zones only	Select TPI, TP or On/Off. TPI = Use if the house usually reaches setpoint in < 1 hour. TP = Use if the house usually reaches setpoint in > 1 hour On/Off = Use if the boiler should not switch regularly, e.g. Solid fuel.	TPI		
Cycle rate (*only when Control type s TPI or TP)	Select 3 cph (cycles per hour), 6 cph or 12 cph	6 cph		

Feature:	Description:	Factory Pre-Set:	
Min on/off (*only when Control type is On/off)	Select 1 min., 3 min., 5 min. or 10 min.	1 min.	
Hysteresis (*only when Control type is On/off)	Enable or disable Hysteresis	Disabled	
Frost Protection *Heating zones only	Enable or disable the Frost protection in the MiTime unit.	Disabled	
Valve protection	The output will be activated for the specified time (in minutes). This will happen weekly, related to the last actuation of the output. Select 0 to 10 minutes.	0 minutes (Off)	
Screen lock	Enable or disable the lock in the MiTime unit. To Lock: Enter a 3 digit code for protection To Unlock: Enter the 3 digit code	000 Master Code 401	
Powersave	To reduce power use when not being adjusted. Available options are: Powersave off, partial display with key data, no display until button press	Powersave off	
System Reset	Will reset all settings to factory per-sets		
Signal Strength	Informs about the current signal strength in the various	ous zones	
Service Settings	Installation & Use]		
Si Status	Enable or disable Service mode	Disabled	
Si Type	Select between, Reduced Comfort, Switched Off & No Effect (warnings only)	Reduced Comfort	
Reduced comfort duration	Set the duration for the reduced comfort setting (0 to 60mins.)	15 min.	
Si due date	Set the date the next boiler service is due	Today	
Warning start	Set the number of days for the on-screen service due warning (0 to 60 days)	30 days	
Boost status	Enable or disable Service Boost	Disabled	
No. of boosts Set the number of Boosts to be available after service is due (1 to 99)		10	
Audible Alarm	Enable or disable Service Alarm	Enabled	
Installer tel	Enter the Installer telephone number if required		
Set password	Set password to restrict access to the Service settings	0000	

Note: If you need to bind a MiStat thermostat, enter the MiStat menu as described in Step 4 until 11 WIRELESS is shown, press +/- to show 12 BIND, press (**) to select. You also need to enter the binding process on the MTIme unit, by entering the installer menu, then the zone setting and RF binding menu options as shown in the table above.

Technical Data

WITTIME 17 TUR,	720R, T740R, T720M, T740M
Voltage	MiTime: 230V a.c. MiStat: 2 x AA, 1.5V alkaline batteries
Switch Rating	MiTime: 2 (1) A 230V a.c. each switch
Ambient temp	Operating: 0° to 45°C (MiTime 3/4 channel 0° to 40°C, MiStat C 0° to 50°C Storage: -20°C to 55°C
Without mains power	MiTime Display: blank. MiTime Time: always kept. MiTime Programme time always preserved
Programming resolution	MiTime: 1 minute
Pollution degree	MiTime: 2
Rated impulse voltage	MiTime: 2.5kV
Ball pressure test temperature	MiTime: 75°C
Radio frequency	868.3 MHz (Bi-directional communicatio
Radio signal range	30m typically. The range may be affected by the composition / density and number of walls between the MiTime and MiStat
Temperature range	MiStat Room: 5°C to 30°C MiStat Cylinder: 40°C to 70°C
Control accuracy	Mistat Room: <0.6°C at 4°/hour MiStat Cylinder: +0/-8°C
Wiring	MiTime: Fixed wiring only, to comply with current IEE regulations (B57671) MiStat Room: No wiring required MiStat Cylinder: Ø0.5mm² 2 core cabl between Sensor & MiStat
Mounting	MiTime: Industry standard wallplate MiStat: Wall bracket or table stand MiStat Sensor: Direct mounting onto cylinder
Energy Class	IV = 2% (According to EU 811/2013, 812/2013, 813/2013)
Relevant EC Directives:	2006/95/EC Low Voltage Directive 2004/108/EC Electromagnetic Compatibility Directive 1995/5/EC R&TTE Directive 2006/66/EC Battery Directive 2011/65/EU RoHS Directive
Applied Standards:	EN60730-1; EN60730-2-7; EN60730-2-9 ETSI EN 300 220-3; ETSI EN 301 489-3

Client	Invensys	File Name	7378 Drayton Instruction Manual Update 06490194001			
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