



SECURE C-Stat 11-M Mains Operated Programmable Room Thermostat Installation Guide

[Home](#) » [SECURE](#) » SECURE C-Stat 11-M Mains Operated Programmable Room Thermostat Installation Guide



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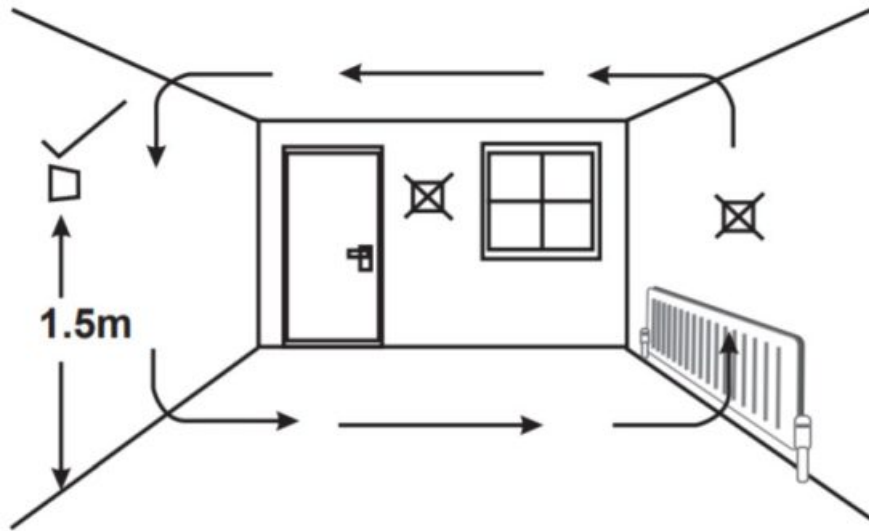
Programmable room thermostats are widely recognized as one of the best ways in which to control the central heating. C-Stat programmable room thermostats have a large display and intuitive user interface, making them easy to set up and use. CStat uses a sophisticated load compensation (LC) algorithm for accurate temperature control and energy efficiency. Being mains powered these models won't need the batteries changing every two years.

Installation and connection should only be carried out by a suitably qualified person and in accordance with the edition of the IEE wiring regulation.

Warning: Isolate mains supply before commencing installation.

Positioning the C-Stat programmable room thermostat

The C-Stat should be mounted on an internal wall approximately 1.5 meters from floor level and should be in a position away from draughts, direct heat and sunlight. Ensure that there will be enough space to allow access to the two retaining screws located at the base of the wall plate.



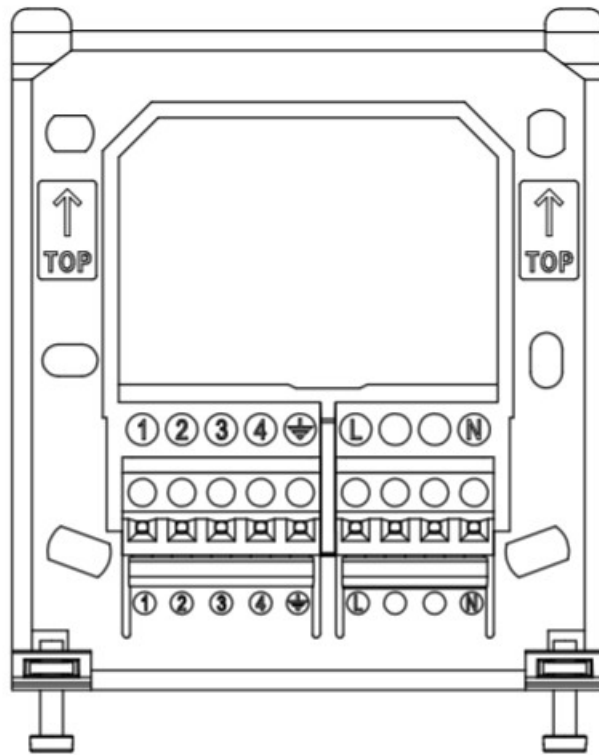
Contents

- [1 Fitting the wall plate](#)
- [2 Direct Wall Mounting](#)
- [3 Wiring Box Mounting](#)
- [4 Internal wiring diagram](#)
- [5 LC Temperature control software](#)
- [6 Fitting the C-Stat to the wall plate](#)
- [7 Installer Settings](#)
- [8 Resetting the thermostat](#)
- [9 Specification – C-Stat 11-M | C-Stat 17-M](#)
- [10 Documents / Resources](#)
- [11 Related Posts](#)

Fitting the wall plate

To remove the wall plate from the C-Stat undo the two retaining screws located on the underside, the wall plate should now be easily removed. Once the wall plate has been removed from the packaging please ensure the C-Stat is resealed to prevent damage from dust, debris etc.

The wall plate should be fitted in a position that allows a total clearance of at least 50mm around the C-Stat programmable thermostat.



Direct Wall Mounting

Offer the plate to the wall in the position the C-Stat is to be mounted and mark the fixing positions through the slots in the wall plate. Drill and plug the wall, then secure the plate in position. The slots in the wall plate compensate for any misalignment of the fixings.

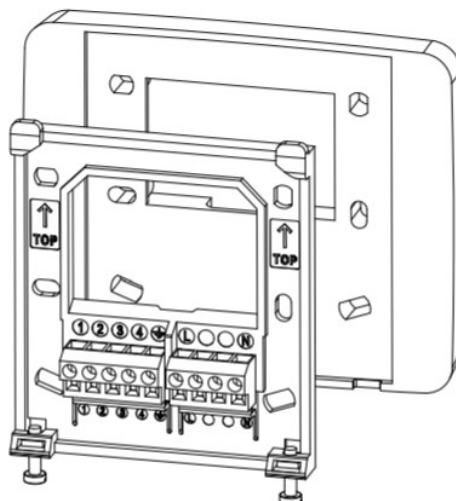
Wiring Box Mounting

The C-Stat wall plate may be fitted directly onto a single gang steel flush wiring box complying with BS4662, using two M3.5 screws. The C-stat is suitable for mounting on a flat surface only; it must not be positioned on an unearthed metal surface.

Electrical Connections

All necessary electrical connections should now be made. Flush wiring can enter from the rear through the aperture in the wall plate.

A Pattress is supplied to allow main surface wiring to enter the unit.



The main supply terminals are intended to be connected to the supply by means of fixed wiring.

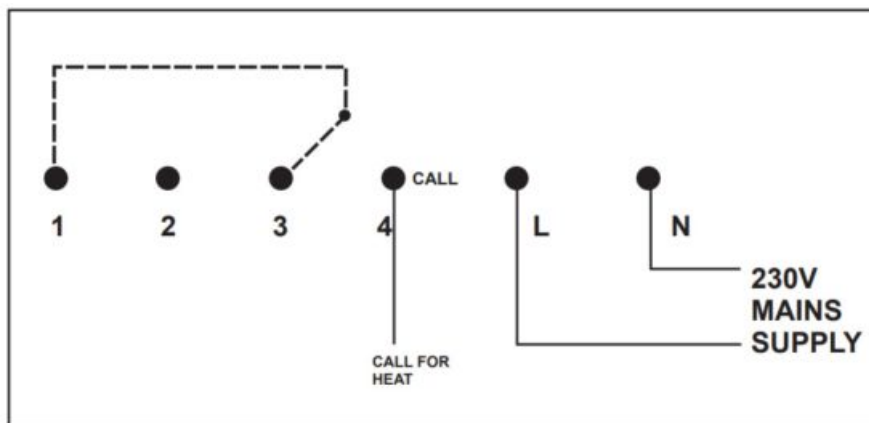
The C-Stat is mainly powered and requires a 3 Amp fused spur.

The recommended cable size is 1.0mm².

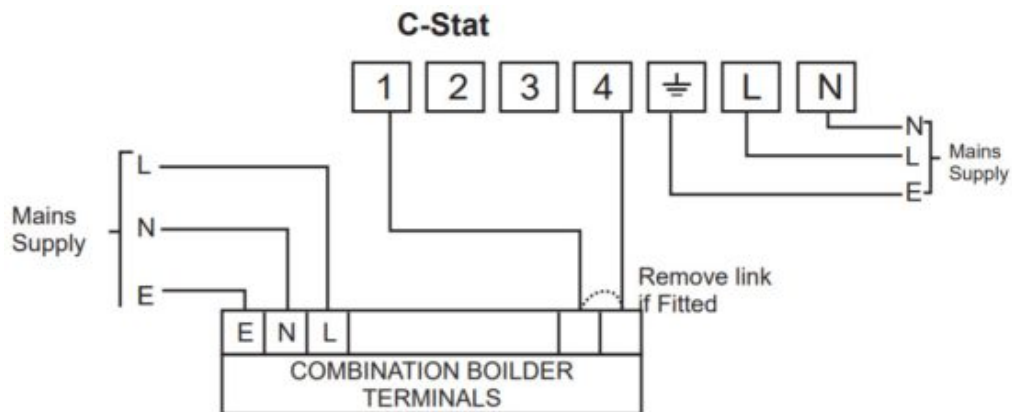
The C-Stat is double insulated and does not require an earth connection, an earth connection block is provided on the backplate for terminating any cable earth conductors. Earth continuity must be maintained and all bare earth conductors must be sleeved. Ensure that no conductors are left protruding outside the central space enclosed by the backplate.

Internal wiring diagram

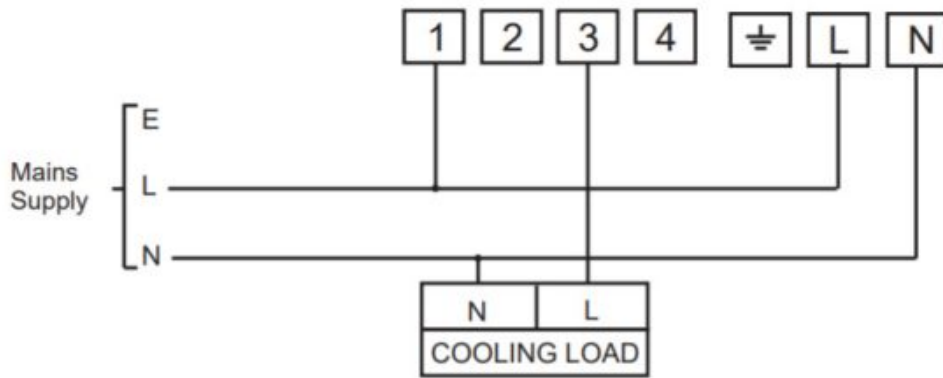
These diagrams are schematic and should be used for guidance only. Please ensure that all wiring complies with current IEE regulations



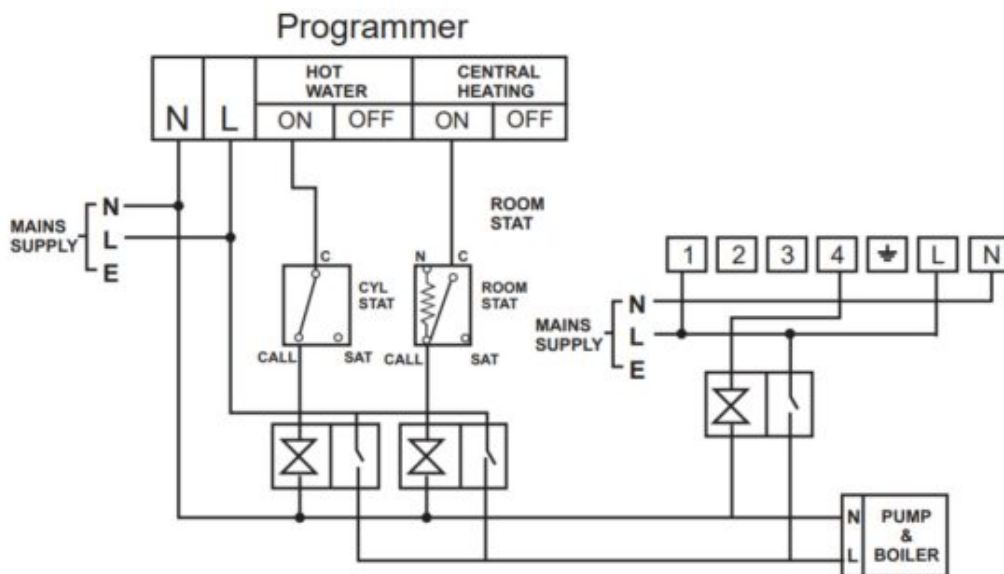
- The C-Stat have voltage-free contacts
- For mains voltage switching applications, link terminal L-1
- For low voltage switching applications, apply a low voltage to terminal 1 with no links.



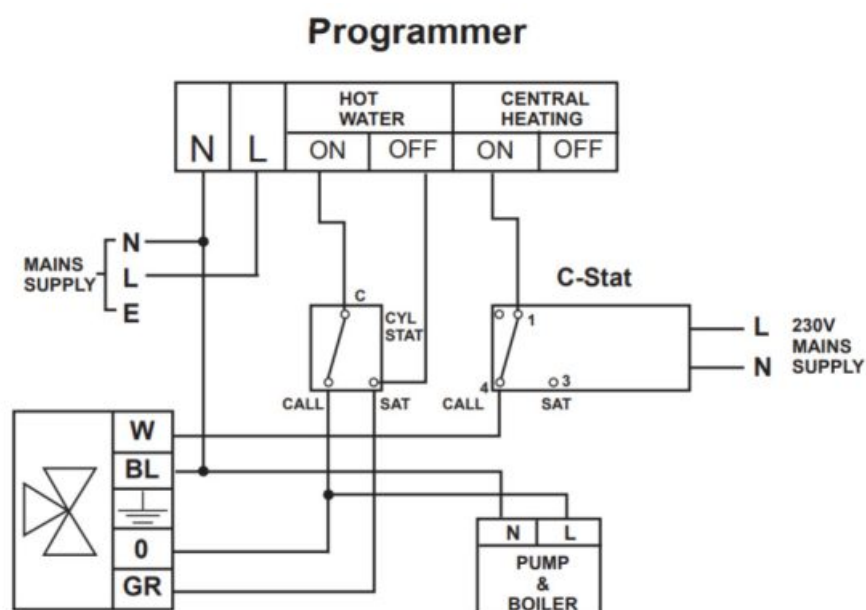
C-Stat controlling typical combination boiler installation. For precise termination connection information please refer to the boiler manufacturer instructions



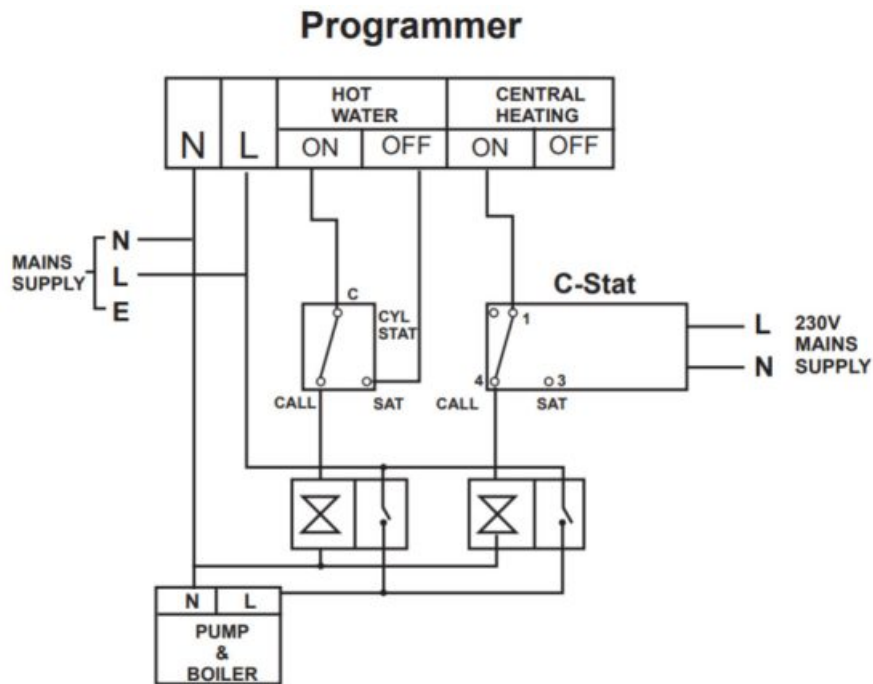
C-Stat wired to control a cooling load. When necessary the C-Stat should be used in conjunction with a contractor.



C-Stat controlling a secondary heating zone on a fully pumped system with existing programmer and two spring return valves with auxiliary switches.



C-Stat replacing a conventional room thermostat on a fully pumped system with an existing programmer and 3 port mid-position valve.



C-Stat replacing a conventional room thermostat on a fully pumped system with an existing programmer and two spring return valves with auxiliary switches

All wiring diagrams are schematic and should be used for guidance only.

INSTALLATION AND CONNECTION OF THE C-STAT MUST BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON.

WARNING: ISOLATE MAINS SUPPLY BEFORE COMMENCING INSTALLATION

LC Temperature control software

Thermostats using LC (Load Compensation) control algorithms will reduce the temperature swing that normally occurs when using traditional bellows or thermally operated thermostats. As a consequence, an LC regulating thermostat will maintain the comfort level far more efficiently than any traditional thermostat. When used with a condensing boiler, the LC thermostat will help to save energy as the control algorithm allows the boiler to operate in condensing mode more consistently compared to older types of thermostats.

- For Gas boilers set the LC setting to 6 cycles per hour (default setting)
- For Oil boilers set the LC setting to 3 cycles per hour
- For Electric heating set the LC setting to 12 cycles per hour

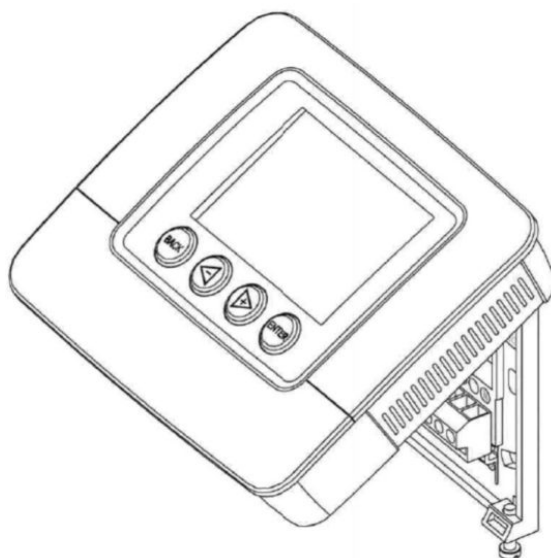
To adjust this setting go to the SETUP MENU and select LC CYCLES

Fitting the C-Stat to the wall plate

Complete the installation by swinging the C-Stat into position by engaging the lugs at the top of the wall plate before pushing it firmly home into its plug-in terminal block.

Tighten the 2 captive screws on the underside of the unit.

Now ensure that the heating system is responding to the On/Off commands from the C-Stat. Explain its operation to the householder and hand over the users operating instructions to the user.



Installer Settings

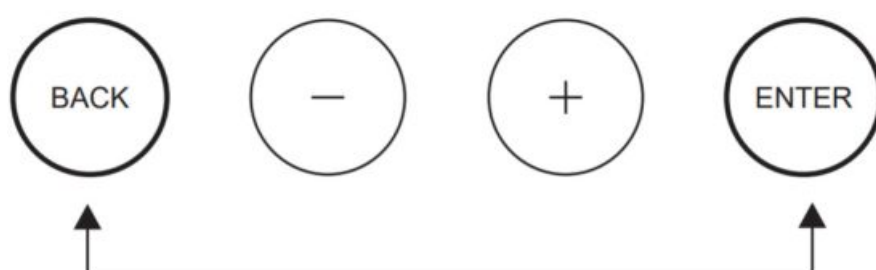
There are a number of 'Installer Settings' that should be set on installation. These can be found under the 'SET UP MENU' on page 15 of the user instructions.

Clock Format	AM/PM or 24 Hour clock display – Default setting AM/P
Daylight saving	On or Off – Default setting ON for UK Market
Standby temperature	Frost protection setting — Default setting 5°C
Upper and Lower-Temperature limits	Default settings 30°C and 5°C
LC Cycles	This setting will change according to the type of boiler being used – Default setting 6 For Gas boiler, this setting should be 6 cycles per hour For Oil boilers, this setting should be 3 cycles per hour For Electric panel heaters, this should be 12 cycles per hour
Optimum Start	On or Off — Default setting Off

The LC Cycles setting and Optimum Start settings should be carefully set on installation as this will affect system performance.

Resetting the thermostat

Electronic equipment can in some circumstances be affected by electrical interference. If the display becomes frozen or scrambled simply press both the BACK and ENTER buttons simultaneously. Using this procedure will restore the C-Stat to the original factory settings, the Time and Date will remain correct.



Specification – C-Stat 11-M | C-Stat 17-M

Purpose of Control	Thermostat
Power Supply	230V 50Hz
Contact type	Micro-disconnection
Wiring configuration	Voltage free c/o contacts (SPDT)
Contact voltage rating	230V ac 50Hz (30V dc)
Contact current rating	8A (1A inductive)
Temperature differential	0.5°C
Temperature accuracy	+/- 0.5°C to 21°C
Impulse rating	Category II 2500 V
Standards	BS EN 60730-2-9, EN 60730-2-9
Dimensions (WxHxD)	120mm x 100mm x 26.5mm
Weight	0.3kg (approx)
Enclosure	Flame retardant thermoplastic
Ingress protection	IP30
Pollution degree	Degree 2
Insulation class	Class II (Double Insulated)
Software class	Class A
Control type	Type 2B
Temperature range	0°C to 40°C
Electronic Control	
Ball Pressure Temperature	75 °C
Construction of Control	Electronic control



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Documents / Resources

<div><p>SECURE C-Stat 11-M C-Stat 17-M Installation Instructions</p><p>Mains Operated Programmable Room Thermostat</p><p>Programmable room thermostats are widely recognised as one of the best ways to reduce the carbon footprint of buildings. C-Stat programmable room thermostats have a large, bright and intuitive user interface, making them easy to read and use. C-Stat uses a highly accurate temperature sensor, allowing for accurate temperature control and energy efficiency. Being mains powered there is no need for batteries, reducing the need for disposal.</p><p>Installation and connection should only be carried out by a qualified electrician and in accordance with the advice of the CE marking regulations.</p><p>Warning: include mains supply before commencing installation.</p></div>	<p>SECURE C-Stat 11-M Mains Operated Programmable Room Thermostat [pdf] Installation Guide</p> <p>C-Stat 11-M, C-Stat 17-M, C-Stat 11-M Mains Operated Programmable Room Thermostat, C-Stat 11-M, Mains Operated Programmable Room Thermostat</p>
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