

Thank you for purchasing a BN Thermic product. Manufactured to a high standard, this product will, if used according to these instructions and properly maintained, give you years of trouble free performance. Please ensure instructions remain with your customer for their reference.



REGISTER: PLEASE REGISTER THIS PRODUCT ONLINE TO ACTIVATE YOUR GUARANTEE AT
www.bnthermic.co.uk



IMPORTANT: PLEASE READ THESE INSTRUCTIONS, NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS, AND CAUTIONS. USE THIS PRODUCT CORRECTLY, AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY.

1. SAFETY INSTRUCTIONS

1.1 ELECTRICAL SAFETY

WARNING! Under **NO** circumstances may you take a **230V** supply to this controller. The controller works on low voltage (less than 30V) and to ensure the system is safe 230V supplies **MUST** be kept away from this controller.

WARNING! It is the responsibility of the owner and the operator to read, understand and comply with the following:

You must also read and understand the following instructions concerning electrical safety.

- The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. If in any doubt about electrical safety, contact a qualified electrician.
- Installation should always be carried out by a qualified electrician or a competent person in accordance with current electrical regulation.



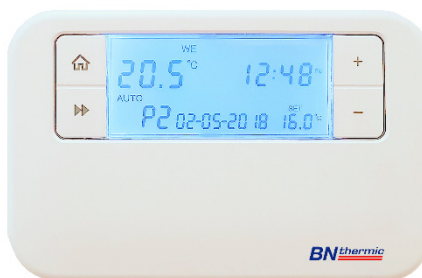
1.2 GENERAL SAFETY INSTRUCTIONS

- ✓ Remove all packaging and store it away from children, check the package for visible damage or tampering.
- ✓ Only use recommended attachments and parts. To use unauthorised parts may be dangerous and will invalidate your warranty.
- X **DO NOT** use in areas where hazardous gasses or dusts may be present.
- X **DO NOT** disassemble the controller for any reason. The circuit board has no user serviceable parts on it.
- X **DO NOT** use this controller to perform a task for which it has not been designed.

2. INTRODUCTION & SPECIFICATION

This Controller is designed to work in conjunction with SystemX heaters. It provides low / high heat or fan only settings. Any heaters from the SystemX range may be connected together and controlled by this controller.

Model	CX3
Dimensions (W x H x D)	120 x 80 x 35mm
Recommended Mounting Height	1.5M
Recommended Timer (If required)	PROTIM-7
Recommended Digital Thermostat (If required)	PROSTAT2



PROSTAT2 – 7 Day Digital
Thermostat (Optional Extra)



PROTIM-7 – 7 Day Timer
(Optional Extra)

3. LOCATION OF CONTROLLER

CHOOSING A LOCATION FOR YOUR CX3

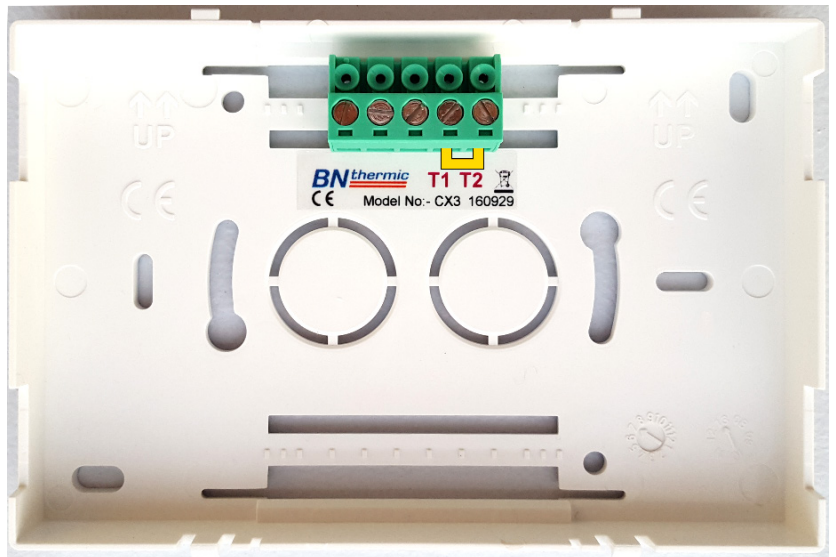
The CX3 should be mounted on a wall approximately 1.5 meters from floor level

4. MOUNTING THE CONTROLLER

To remove the back plate from the front of the controller gently push the bottom of the back plate whilst gently prising the front panel away. The bottom of the controller must be released from the back plate first before gently unclipping the top.

Screw to the wall ensuring the “UP arrows” are pointing the correct way and the green terminal block is at the top.

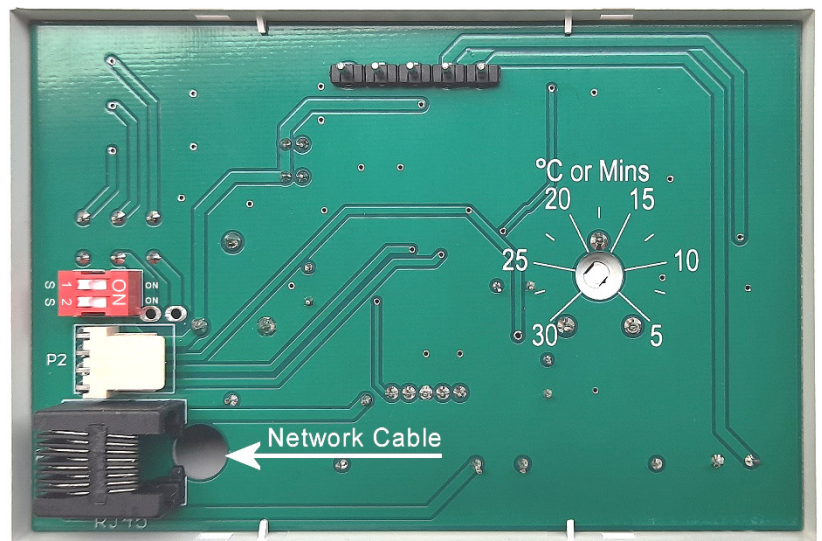
The CX3 can also be mounted on a single gang flush wiring box using the 2 x semi-circular slotted holes in the back. DO NOT overtighten the fixing screws as you will deform the box and the connection block in the back will not engage with the circuit board correctly.



5. ELECTRICAL CONNECTIONS

A network cable is used to connect the controller to any of the SystemX heaters (read notes below regarding cables)

- We recommend you use our network cables as they have been thoroughly tested with all heaters and controllers and are totally compatible.
- Problems arising from using non-standard or inferior network cables are not covered by the guarantee.
- Network cables with “wings” on the boot connections will not fit into the controller socket.



Bring sufficient length of network cable through one of the knock outs in the back plate to allow a lazy loop to be formed before plugging into the network cable socket on back of the circuit board.

The FAN switch (S1/S2) on the back of the PCB has no function as “Fan Only” is selected on the front rotary switch of the controller (see section 10).

If you are NOT fitting an additional timer or digital thermostat to the controller leave the link in the back plate in position.

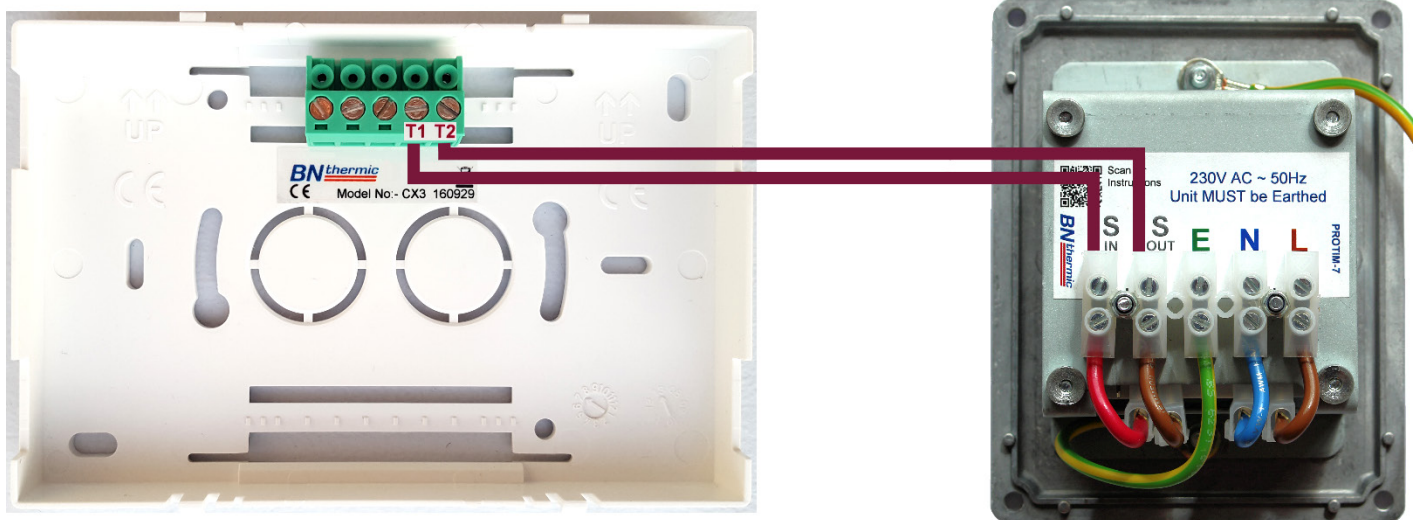
To refit the front panel to the back

Locate the 2 holes on the top of the front cover onto the two lugs on the top of the back box. Now gently click the bottom of the front cover onto the back box. No force should be applied if the front cover does not fit easily the network cable is possibly caught please check before trying again.

If you are not fitting a timer or digital thermostat to the controller go to section 8.

6. USING A TIMER (PROTIM-7) WITH THE CONTROLLER

You may control your heating system by adding a PROTIM-7 timer to the control circuit. We do not recommend adding other timers as the timer MUST be a “Zero Volt” type timer and NOT have a 230V output. If you wish to use another manufacturer’s timer, please contact us first.

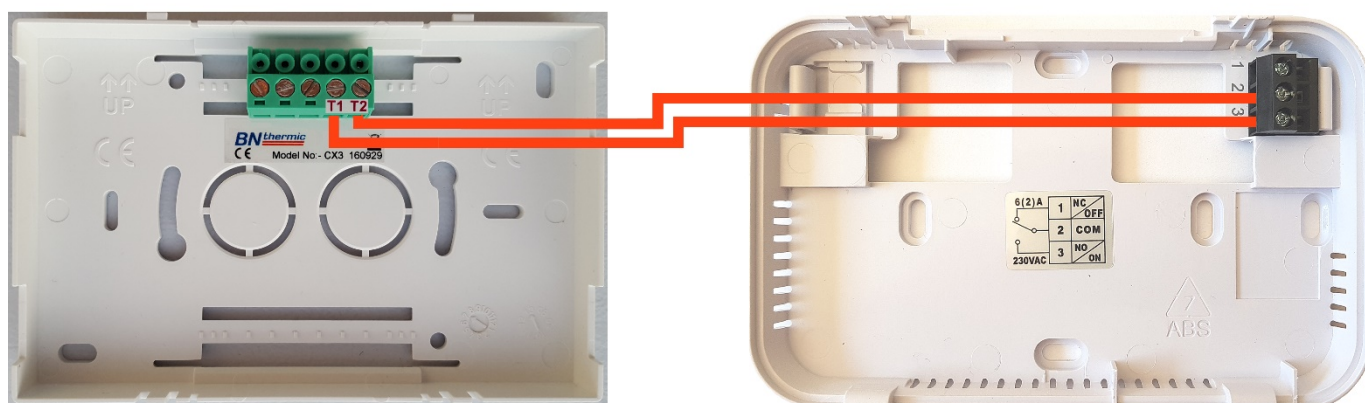
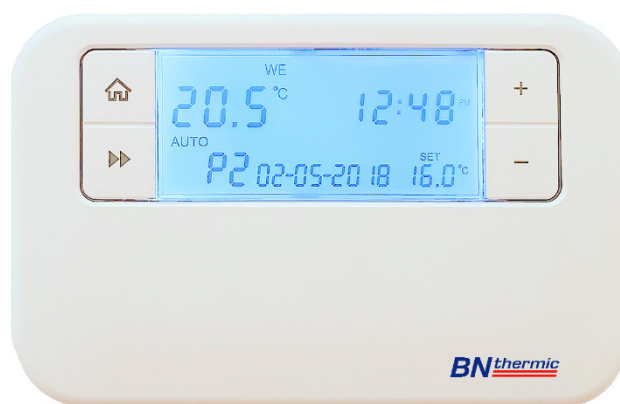


- 1) Remove the existing link  between T1 and T2.
- 2) Using any insulated copper wire connect between Terminals T1 and SIN of the timer.
- 3) Using any insulated copper wire connect between Terminals T2 and SOUT of the timer.
- 4) Connect terminals L, N & E of the timer to a 230V 3A fused spur box.

PLEASE CHECK ALL CONNECTIONS BEFORE TURNING ON AS INCORRECT WIRING IS NOT COVERED BY THE GUARANTEE

7. USING A PROGRAMMABLE ROOM THERMOSTAT (PROSTAT2) WITH THE CONTROLLER

You may control your heating system by adding a PROSTAT2 digital thermostat including 7 day timer to the control circuit. We do not recommend adding other thermostat / timers as it MUST be a “Zero Volt” type and NOT have a 230V output. If you wish to use another manufacturer’s thermostat / timer, please contact us first.

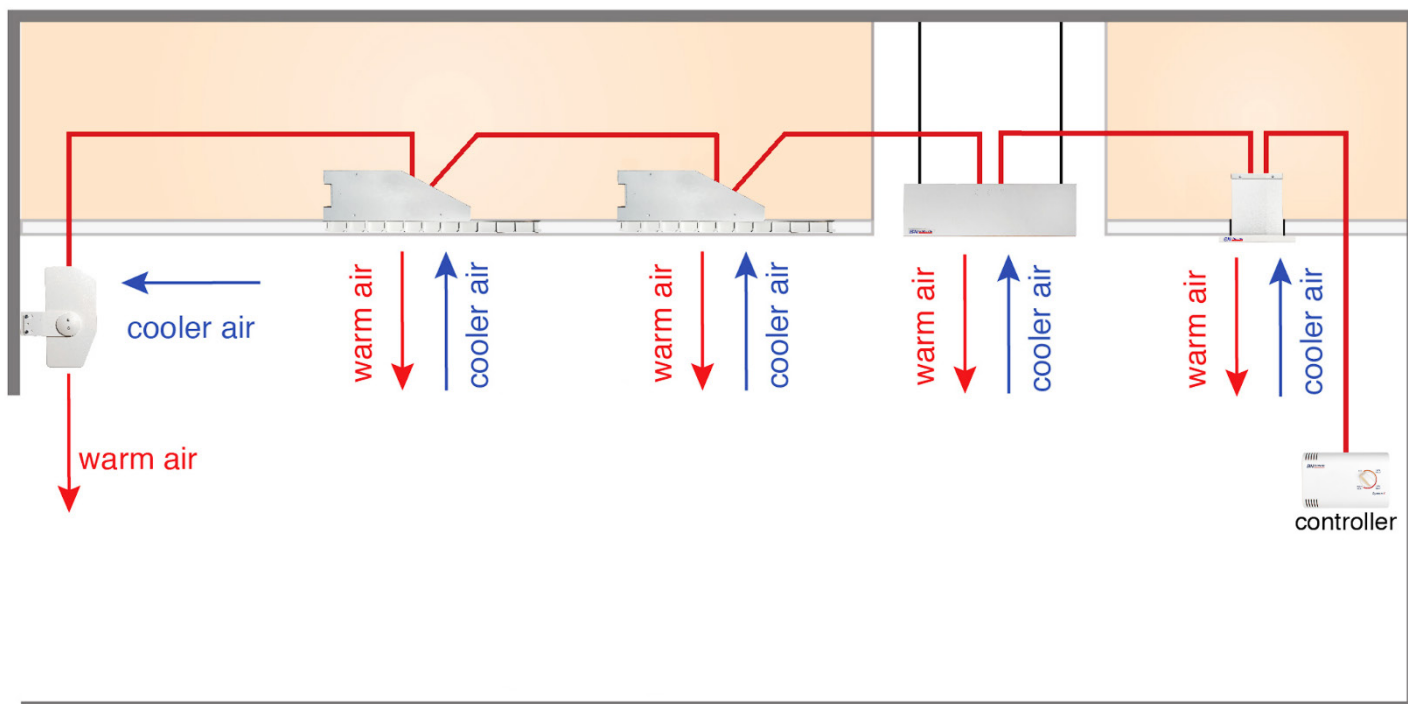


- 1) Remove the existing link  between T1 and T2.
- 2) Using any insulated copper wire connect between Terminals T1 and Terminal 3 of the thermostat.
- 3) Using any insulated copper wire connect between Terminals T2 and Terminal 2 of the thermostat.

PLEASE CHECK ALL CONNECTIONS BEFORE TURNING ON AS INCORRECT WIRING IS NOT COVERED BY THE GUARANTEE

8. CONNECTING THE CONTROL CIRCUIT OF SYSTEM X HEATERS TOGETHER

Network sockets on the heaters are bi-directional. This means that either may be used for in or out.



- 1) Connect the CX3 controller into any heaters network socket.
- 2) Daisy chain all heaters together using network cables.

9. OPERATION

Ensure all heaters have their power supply enabled

Settings

FAN ONLY – All heaters fans will operate but no heat produced, useful in the summer for moving air around.

LOW HEAT – All heaters will operate on their lower heat setting.

If using a thermostat (optional extra) low heat will only operate if the ambient temperature is below the set point.

HIGH HEAT – All heaters will operate on maximum heat output.

If using a thermostat (optional extra) high heat will only operate if the ambient temperature is below the set point.

Please note should a heater's power supply fail or is turned off the remaining heaters will still operate. This is a design feature of the integral electronic circuit board.

10. MAINTENANCE

No maintenance of the controller is required.

If cleaning of the controller case is required only use a slightly damp cloth with a little soapy water.

Do not use any chemicals / abrasives to clean the controller.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.



WEEE REGULATIONS:

This appliance bears the symbol of the crossed waste bin. This indicates that, at the end of its useful life, it must not be disposed of as domestic waste, but must be taken to a collection centre for waste electrical and electronic equipment. It is the user's responsibility to dispose of this appliance through the appropriate channels. Failure to do so may incur penalties established by laws governing waste disposal.

IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Your BN Thermic product is guaranteed for one year from date of purchase. We will repair or replace at our discretion any part found to be defective. We cannot assume any consequential liability. This guarantee in no way prejudices your rights under common law and is offered as an addition to consumer liability rights.

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