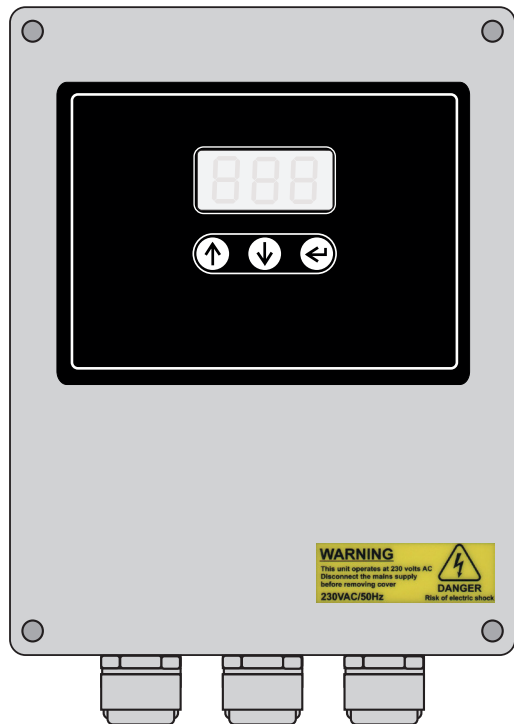
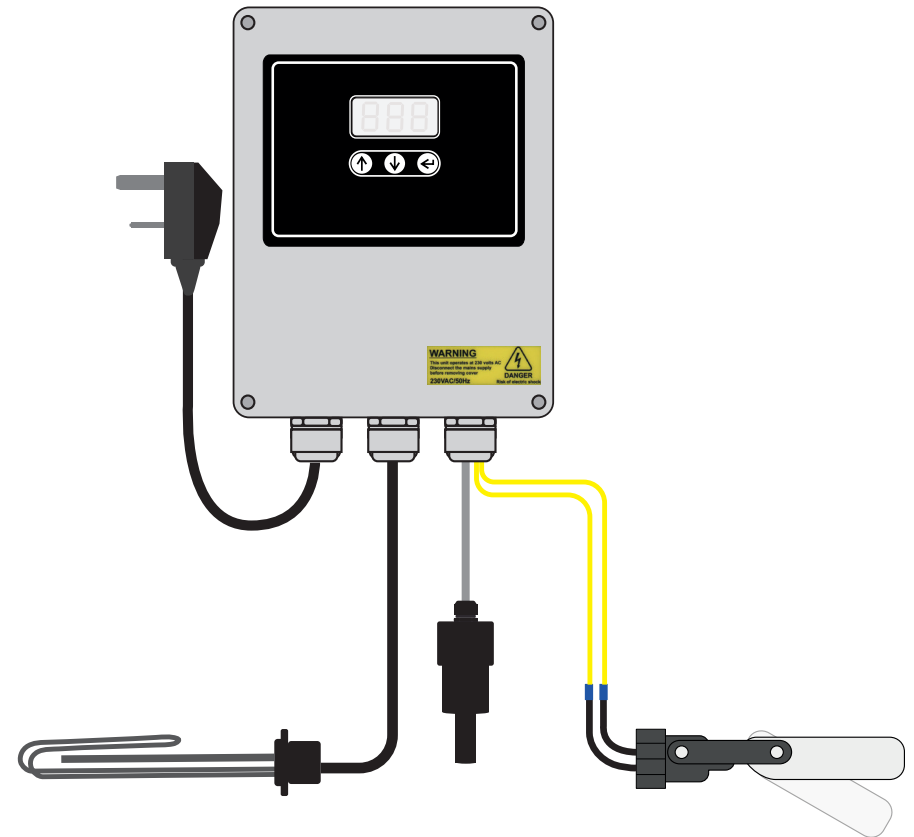




# V11M IHC TP Manual



A guide to the wiring, fitting and operation of the V11M IHC TP



230 VAC 2.5kW  
Heater Element  
(NOT SUPPLIED  
WITH CONTROLLER)

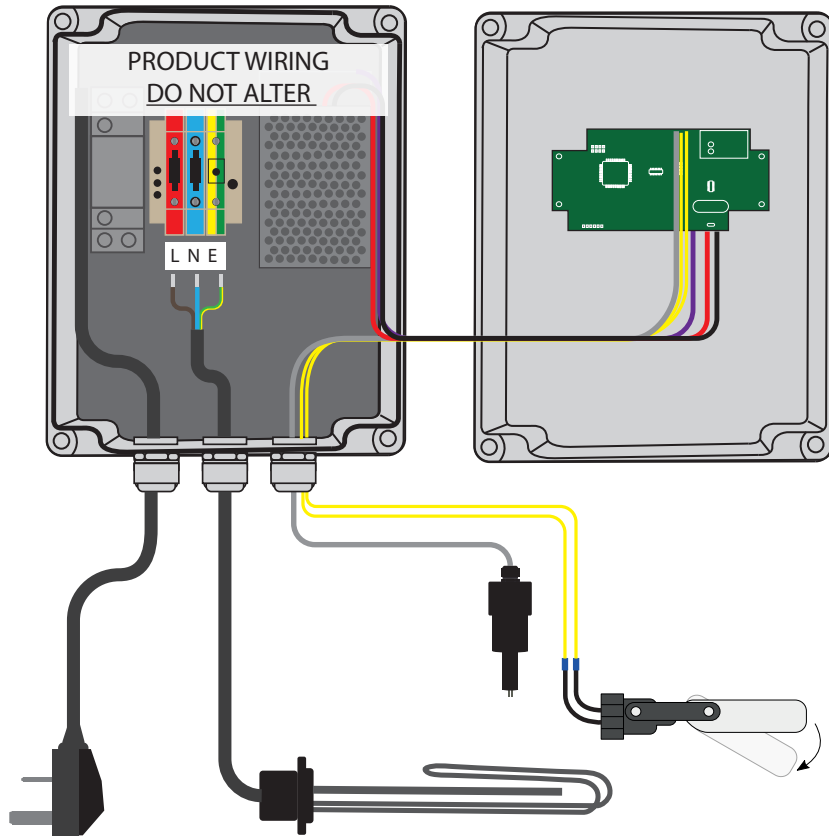
Temperature Probe  
12mm or 1/2"

Low Level Switch  
(safety cut-off)

Connect the controller in accordance with the diagrams in this manual, following the fitting instructions.



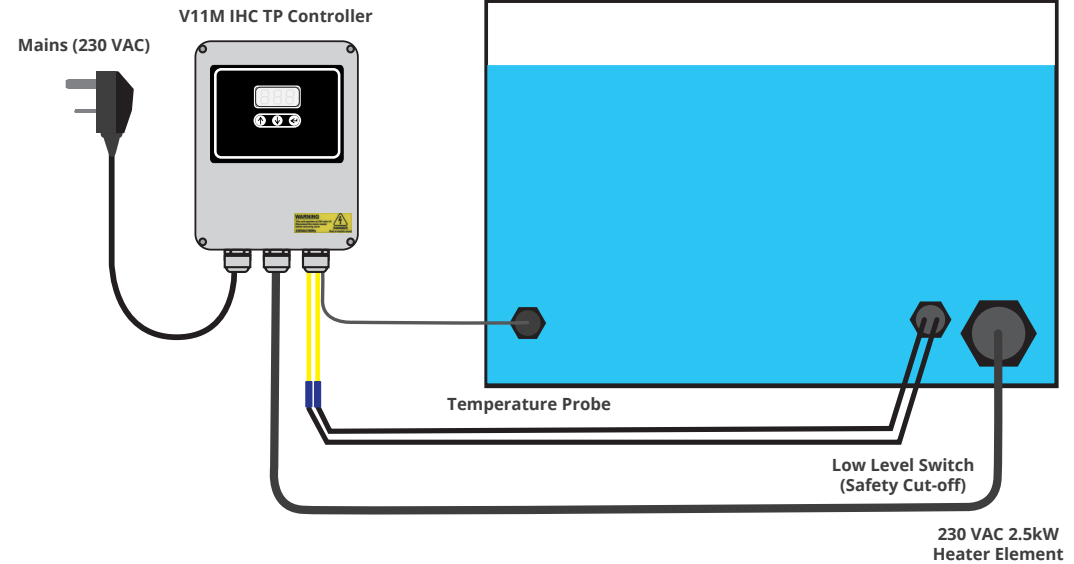
**ALWAYS DISCONNECT THE MAINS SUPPLY BEFORE OPENING UNIT.**  
**ALWAYS DISCONNECT THE MAINS SUPPLY BEFORE CONNECTING THE LOW LEVEL SWITCH, TDS PROBE OR HEATER ELEMENT.**



IT IS RECOMMENDED THAT YOUR V11M IS FITTED AGAINST A WALL OR SIMILAR VERTICAL SURFACE.

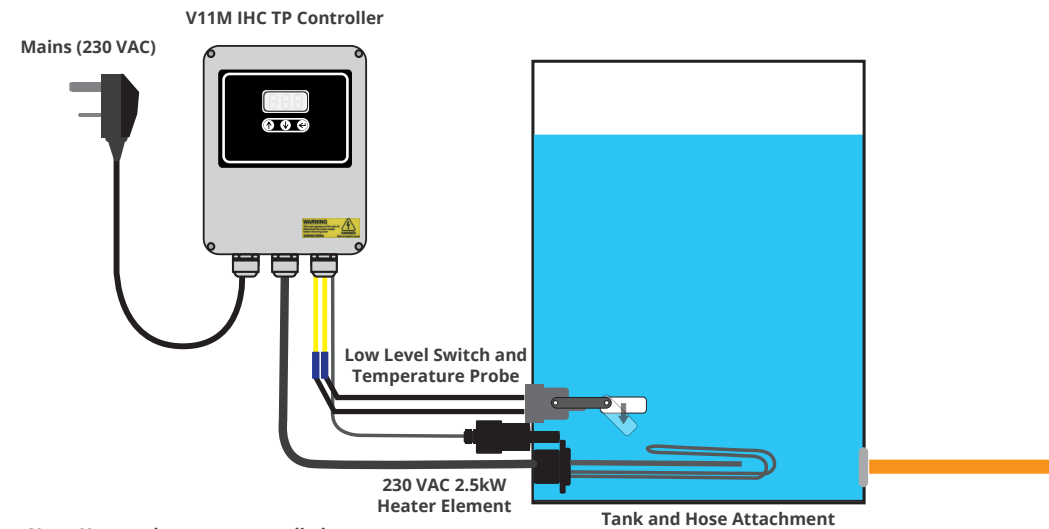
1. Ensure the V11M is NOT PLUGGED into the MAINS SUPPLY.
2. Remove the top cover by loosening the four corner screws. Using a large pozidrive screw driver continuously turn clockwise.
3. Carefully remove top cover.
4. Screw unit to the wall or vertical surface through the four ready drilled holes in the corners of the back box.
5. Proceed to step 2 'Wiring'.

## Tank Front View

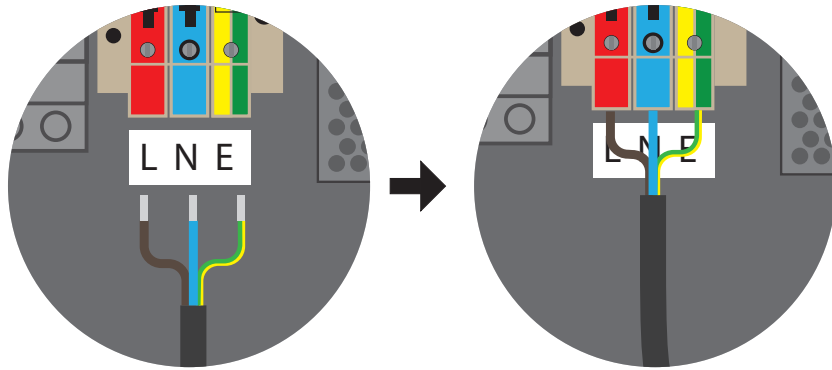


Fit the heater element low down in the tank to ensure it is under the water, the low level switch should be fitted just above the heater element. Should the low level switch activate, the controller will turn the heater element off. Fit the temperature probe away from the heater but low enough in the tank so that it is under water.

## Tank Side View



Note: Heater element not supplied.



1. Insert the Heater Element wire through the centre gland
2. Carefully insert the yellow/green wire into the yellow/green (earth) terminal and tighten using a small screw driver. Do the same again for the blue wire into the blue (neutral) terminal and lastly the brown wire into the red (live) terminal.
3. Tighten the centre gland and replace the top cover and tighten the four corner screws using the reverse procedure to Step 2- instruction 2.

Message	Description
	The water level has dropped and activated the level switch. The controller has turned the heater element off.
	The controller has timed out. The set number of hours has passed and the required temperature has not been reached. The controller has turned the heater element off.
	The controller has turned the heater on.
	The temperature probe is not connected to the controller or the probe can not be read, check the connection.

Turn on the controller using the up button. The current temperature will be displayed.



To set the required temperature, press and hold the down and enter buttons, tP (temperature) will be displayed. To adjust this value use the up and down buttons accordingly.



Press enter to set temperature. tO (safety time out) will now appear, use the up and down buttons to set tO between 1 and 6 hours (this limits the maximum heater on time).



rPO (run on power up) will now appear. Set to 'on' for the unit to start heating automatically on the power up or when power returns after a power cut. Set to 'off' if you want to manually turn the unit on after a power up.

Note - If you want to use the unit with a timer, set rPO to 'on'



Press enter to set. The controller is now ready to use. When the controller has turned the heater element on the display will flash between the current temperature reading and ht.



Once the required temperature has been reached the heater element is turned off and just the temperature will be displayed. The controller will continue to monitor the temperature and turn the heater element back on should the temperature drop below the 'tP' setting.

If the temperature can not be reached the controller will time out after the set number of hours has passed and turn off the heater element for safety. After this happens the controller will flash between the temperature reading and tO. To remove this message the controller must be turned off. To turn off the controller press and hold the enter button.



#### DISCLAIMER

Unit must be installed by a competent electrician or electrical engineer. Failure to comply with these instructions could invalidate your warranty.



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Specification	Value
Supply Voltage	85 - 264 VAC
Fuse Rating	13A
Max Switched Load	2500VA
Enclosure Material	ABS
Water Resistance	IP56
Dimensions	201 x 163 x 98 (mm)
Working Temperature	0 to 40 Deg C

#### DISCLAIMER

THE MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES TO ANY PRODUCT HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. THE MANUFACTURER DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN.

For more information and videos on how to use Spring controllers please visit: [www.springltd.co/videos](http://www.springltd.co/videos)