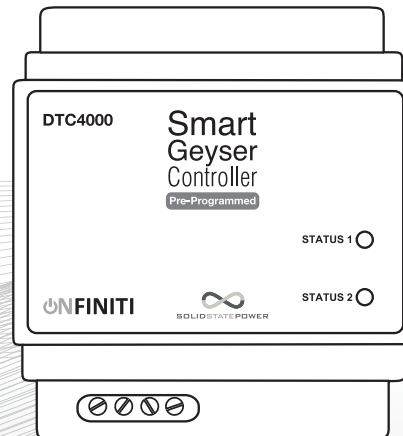




## DTC4000 SMART GEYSER CONTROLLER



**Product Overview**  
**Features & Benefits**  
**DTC4000**  
**Installation**  
**Installation Diagram**  
**Product Operation**  
**Terms & Conditions**  
**Safety Precautions**

**PLEASE READ INSTRUCTIONS BEFORE USE**  
This product must be installed by a qualified electrician.

## PRODUCT OVERVIEW



Congratulations on your purchase of the Pre-programmed Smart Geyser Controller DTC4000.

Please ensure that a qualified electrician installs this product for you.

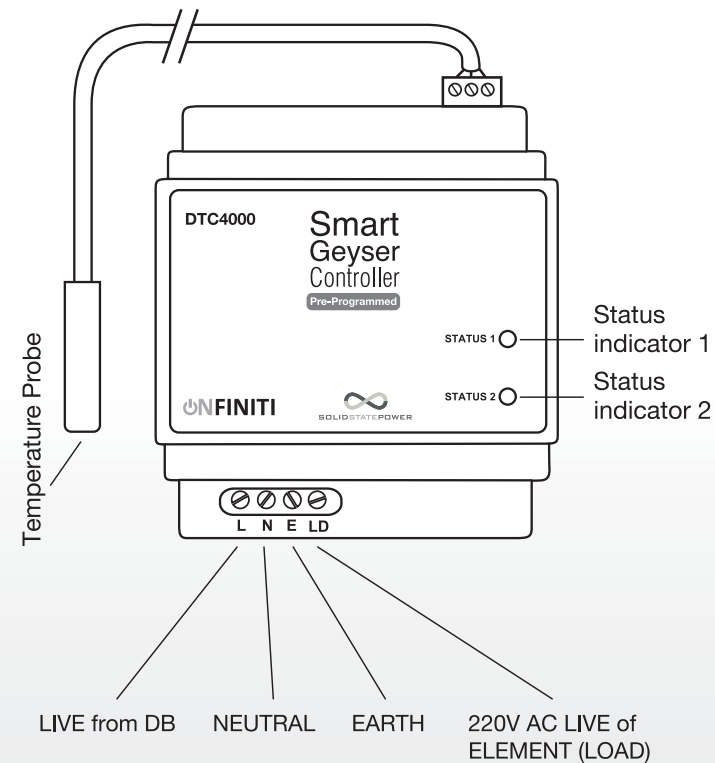
According to Eskom, the geyser is responsible for approximately 40% of your household electricity. The DTC4000 will reduce your geyser electricity cost by at least 25%. The DTC4000 essentially replaces the existing thermostat in your geyser and has pre-programmed minimum and maximum water temperature values. This ensures that the water temperature in your geyser is accurately maintained, which saves you money by not re-heating water unnecessarily.

## FEATURES & BENEFITS



1. You will save a minimum of 25% of your geyser electricity cost.
2. This is a pre-set unit; therefore you never need to programme it once it's been installed.
3. You will accurately regulate the temperature of your geyser.
4. The unit is installed next to your geyser out of sight.
5. The controller has built-in safety features and will alert you to: overheating, not heating, sensor faults and wireless errors.
6. The controller will automatically cut power to the geyser if it detects one of these safety problems.

## DTC4000



## INSTALLATION



Refer to the installation diagram which illustrates the installation process.

### Connecting the unit

Terminal L of the controller to 220V AC Live.

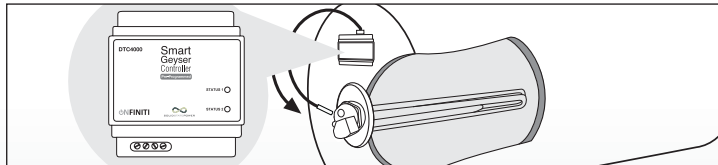
Terminal N of the controller to Neutral.

Terminal E of the controller to Earth.

Terminal

LD of the controller to Live of the Element (LOAD).

1. Secure and mount the controller as close to the geyser element as possible.

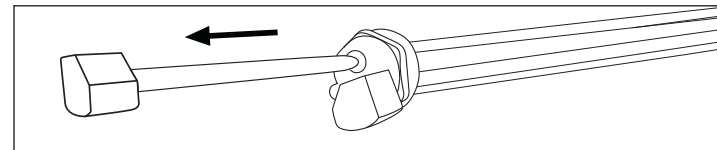


2. Remove the 220V LIVE wire that goes to the geyser element and connect it to TERMINAL L of the controller.
3. Connect terminal N of the controller to 220V Neutral, this can be connected to the NEUTRAL of the geyser element.
4. Using a piece of LIVE wire (25 Amp) connect the LIVE of the element to Terminal LD of the controller.

Once the unit is wired, do the following:

At this point, make sure the power is OFF.

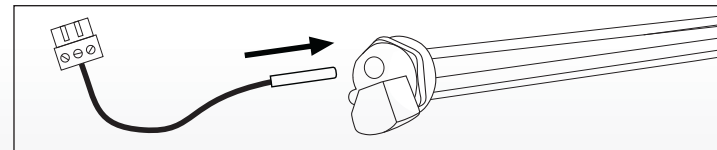
5. Remove the existing thermostat from the geyser.



6. Push the Digital Temperature Sensor FULLY into the thermostat pocket.

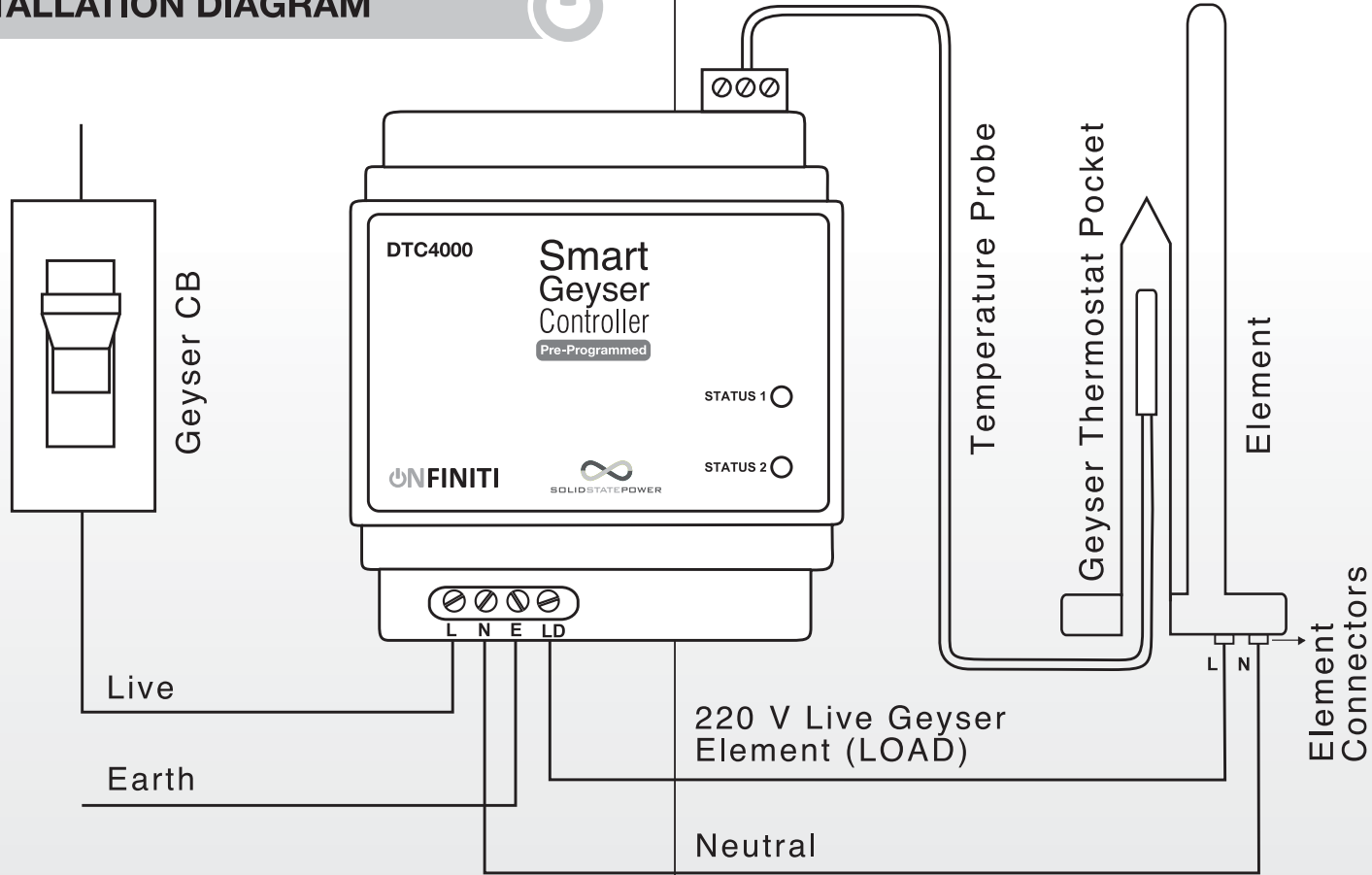
Secure the Digital Temperature Cable so that the Sensor does not slide out of the thermostat pocket.

NOTE: If the sensor with the brass barrel is too large to fit into the Geyser Thermostat Pocket, you can remove the brass barrel by simply pulling it off and inserting the sensor into the pocket.



7. Connect the Thermostat Probe cable to the DTC4000 by plugging in the green connector clip to the DTC4000 unit.
8. At this point, switch the power ON at the DB board, tripping plug or isolator.

# INSTALLATION DIAGRAM



## PRODUCT OPERATION



### Switching the controller ON/OFF

When powered, the unit will come ON after a 2 second delay.  
The STATUS 1 and STATUS 2 LED's will flash ON / OFF 3 times.

To Switch the unit OFF, simply switch off the geyser isolator.

### Operation LED Indication

1. When the unit is ON and the geyser temperature is below 55 Degrees Celsius - STATUS 1 = RED.  
In this situation, FULL Power is delivered to the element.
2. When the unit is ON and the geyser temperature is between 55 Degrees Celsius and 60 Degrees Celsius - STATUS 1 = GREEN  
In this situation, HALF Power is delivered to the element.
3. When the unit is IDLE and the Element is OFF - STATUS 1 = FLASH GREEN ON / OFF



## PRODUCT OPERATION

### ERROR LED Indication

STATUS 1	STATUS 2	ERROR
Flashing yellow	OFF	Element overheating - check water
OFF	Flashing yellow not heating	Faulty element -
Flashing yellow	Flashing yellow connection / replace sensor	Temperature sensor is damaged OR is not connected - check

**NOTE: If an error condition occurs, power to the unit needs to be cycled after the repair is complete.**

## TERMS AND CONDITIONS



1. This product comes with a one year Warranty from date of purchase.
2. This Warranty is not valid if servicing or repairs during the Warranty period are undertaken by companies/persons unauthorized by the supplier.
3. The unit must be installed by a certified and qualified electrician.
4. The Warranty does not cover any damage caused by a lightning strike, act of God or misuse.
5. Although every protection precaution has been made to ensure the unit does handle extreme fluctuations in the electricity network, we cannot guarantee that the unit may not be damaged due to electricity supply fluctuations.
6. In the case of a malfunction as a result of an inherent design problem or bad workmanship the supplier will repair or exchange the unit at his discretion. If the unit has been tampered with, warranties and any form of cost covered repair will be void.
7. The supplier does not take any liability for any consequential damages caused by the malfunction of the unit for any reason whatsoever.



## SAFETY PRECAUTIONS

1. The unit must be installed by a certified and qualified electrician.
2. The unit contains a microprocessor and other electronic components and therefore should be handled with care. It must not be dropped on the ground or exposed to extreme temperatures.
3. The unit contains NO serviceable parts; repairs need to be carried out by qualified technicians authorized by the supplier. (SO DON'T TRY FIXING IT YOURSELF).



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