

::: ZESTO NERO  
ZN CONTROL :::

SMART HOT WATER TIMERS

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*Save money, save energy, save  
time.*



## THE HOTTEST TECHNOLOGY

**Imagine...** no more struggling with fiddly hot water timers ever again... being able to turn your water onto boost using your smartphone or computer... not having to remember to turn your water heating on before you need it, or off before you go on holidays... reducing your electricity bills for hot water by 25%...

### INTRODUCING ZN CONTROL...

ZN Control is a small electronic device that comprises a **smart self-learning hot water timer** linked to an equally smart **phone app**. Once fitted to your immersion heater, ZN Control creates an accurate model of hot water usage in your household using intelligent software that learns how and when you use hot water.

It also includes a radio receiver that receives information about the electricity tariffs applying to your home.

By combining its model of your hot water use with the tariff information, it optimises the operation of your electric immersion heater to **save you money, energy and time**.

With ZN Control there is no further requirement for manual timeclock control of your hot water heating. It significantly reduces heat losses from your hot water cylinder, and potentially **reduces consumption of electricity** for your hot water by 25%.



## THE SMARTEST HOMES

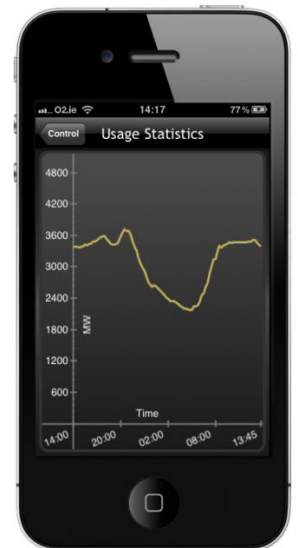
ZN Control is simple, quick and unobtrusive to install. Two sensors are simply stuck or strapped to your hot water cylinder and the ZN Control unit "sticks" to a wall near the hot water cylinder. Your electrician will then pass the electricity supply for the immersion heater through the sensor unit.

The device starts up immediately and starts to learn about the characteristics of your particular hot water cylinder and immersion heater and your hot water usage. After a few days ZN Control takes complete control of the immersion heater for you.

Using your smartphone or computer, you can interact with ZN Control at anytime to override its settings, turn your water heating onto boost, turn it off, or to view your hot water usage settings and history.

**WE ARE NOW LOOKING FOR HOMEOWNERS WHO WOULD LIKE TO BE INVOLVED IN THE NEXT STAGE OF IN-HOME TRIALS OF ZN CONTROL.**

**CONTACT ZESTO NERO ON + 353 1 2108344**



ZN Control even detects when your house is empty during weekends or holidays and turns off your hot water accordingly. Or, if you prefer, you can tell the system you are on holidays –all from the convenience of your smartphone or computer.

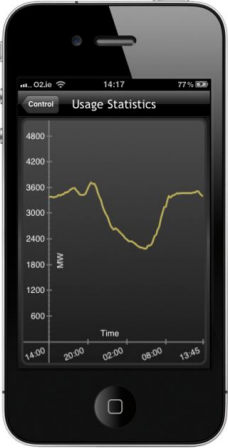
### ZESTO NERO LTD.

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## SMARTER SMART GRID TECHNOLOGY

For electricity suppliers and network operators, Zesto Nero's ZN Control makes it possible to manage electrical output and demand on entire sections of the grid. ZN Control does this by providing you with intelligent remote control of resistive



heating devices in an unlimited number of your customers' households. ZN Control can regulate the power consumed by every immersion heater and the amount of energy stored in every hot water cylinder in real time in response to commands you broadcast.

This makes it easier for you to keep total electrical load on the grid matching local grid capacity, national network capacity and total generator capacity.

### Imagine...

- The latest technology to offer your customers, with a fully integrated smart phone app to make their life easier
- Real-time DSM control of your customers' immersion heaters. The near instant response of these units and the potential for continued response for more than 24 hours opens up the potential for optimising a very significant controlled load to optimise their market trading operation and entering into the reserve and capacity markets.
- Real-time demand control that can be used to optimise Network Loading, Total Generation Capacity, Interconnector Tariffs and so on.

**ZN Control gives you all this.**



## THE SMARTEST NETWORKS

Zesto Nero's ZN Control enables electricity suppliers and network operators to match electrical load to electrical output across entire networks – the whole of Ireland for example. This is a major step forward in the practical application of smart-grid technology.



For example, each of Ireland's 1.45 million households will be using circa 3kW immersion heaters to heat their hot water in the not too distant future - when fossil fuel based heating becomes uneconomical. The total load of all of these immersion heaters will be circa 4,350MW - not dissimilar to the present total system demand which is c.4,500MW. ZN Control will make it possible to smooth out much of the imbalance between demand and output nationwide - the ultimate objective of smart grid technology.

ZN Control is currently being rolled out throughout Ireland and plans are underway to implement Zesto Nero with a number of large UK Network Operators.

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