

NR40

IoT Smart Relay Controller

The next generation of load control for NZ, a 2-channel 40A smart relay designed to actively manage the home's two largest energy loads:

Hot Water Cylinders (HWC) and Electric Vehicles (EV).

Software controlled via API, energy retailers, aggregators and EDBs now have a cost-effective replacement for legacy ripple control, transforming New Zealand's residential loads into verified, financial-grade grid assets.

Integrated Energy Monitoring: Direct, isolated kWh load of both the HWC and EV circuits, and DR 'available'.

Dual 40A Independent Channels: Two separate latching relays housed within a single, compact unit.

Automated SFTP / EIEP1 Data Export: HES translates sub-metering data into standard batch files delivered securely.

Granular OpenADR / IEEE 2030.5

Control: Optional API support for dispatching and reporting targeted load reductions.

Cellular e-SIM: Multi-network LTE-M/NB-IoT, plus the option to pair directly to OEM smart meters.



Auditable, Deterministic Data: Stop guessing with baselines. Extract actual load data to prove flexibility asset.

Maximize Truck-Roll ROI: Single electrician visit. Latching design defaults to ensures HW stays on. Programmable Normally Open or Normally Closed.

Unlock Multi-Rate Tariffs: Retailers can launch "Smart EV/HWC" tariffs directly via their existing billing engines.

Precision Peak Shaving: EDBs can surgically shed load on a specific overloaded street or local transformer feeder circuits.

Always On (No Home Wi-Fi): Eliminate customer tech-support issues caused by home router changes.