

LOAD CONTROL • RESIDENTIAL

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.



40 A PER CHANNEL



Load
kWh sub-metering



Quality
EIEP1 data export



Faults
Connection monitoring

FEATURES

- Integrated kWh monitoring of both HWC and EV circuits, plus DR 'available' status.
- Dual 40A independent latching relays housed within a single, compact DIN-rail unit.
- Automated SFTP / EIEP1 data export — HES translates sub-metering data into standard batch files.
- Granular OpenADR / IEEE 2030.5 API support for targeted load dispatch and reporting.
- Multi-network LTE-M/NB-IoT cellular e-SIM, with OEM smart meter pairing option.

BENEFITS

- Auditable, deterministic load data to prove flexibility assets — no more baseline guesswork.
- Single electrician visit with latching defaults; programmable Normally Open or Normally Closed.
- Retailers can launch "Smart EV/HWC" tariffs directly via existing billing engines.
- EDBs can surgically shed load on specific overloaded street or feeder circuits.
- Always-on cellular connectivity — no home Wi-Fi dependency eliminates router-related support issues.

40 A PER CHANNEL	DIN RAIL MOUNT	2 LATCHING RELAYS	LTE-M CELLULAR
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