

Ripple control option summary

(information sheet)

This schedule provides a summary of Orion's main ripple control channel options (for water heating, night store heating, and two rate metering) that are available for use at residential and business connections. Many of these options provide significant savings on your power bill but it's important to choose the one that suits your needs. Most electricians are familiar with our requirements and these options, and can help you select the one that's best for you and ensure you have the right wiring installed.

1. Peak control

Under this option, Orion routinely controls water heating when network loading is high. We limit the duration of control to ensure that customers continue to have hot water. These channels support 'controlled' or 'economy' type retail tariffs.

P1 Peak control	Off during peaks and emergencies. We aim to limit control to no more than 4 hours in any 7 hour period or 7 hours per day.
P2 Peak control 2h (business)	Off during peaks and emergencies but for no more than 2 hours per day.
P3 Peak control 4h (business)	Off during peaks and emergencies but for no more than 4 hours per day.

2. Fixed time control

This option turns on water heaters and night-store heaters at night, when network loading levels are low and electricity prices are cheaper. These channels support 'night only', 'day/night' or 'weekender' type retail tariffs - all options are available for both residential and business connections.

F1 Night only	Provides approximately 7½ hours per night in one or two blocks, between the hours of 9pm and 7am.
F2 Night with afternoon boost	The same as F1 (above), but with an additional 3 hour boost between the hours of 12pm and 4pm in the afternoon.
F3 Nights and weekends	The same as F1 (above), but with an additional 4 hour boost between the hours of 9am and 4pm on Saturdays and Sundays.
F4 Night 8 (reserved)	Provides approximately 8 hours per night in one block from 11pm till 7am (reserved for use only with Orion's permission).

3. Emergency control (for water heating)

This option provides near-continuous water heating without any regular control. We only interrupt water heating supply to prevent or limit total outages during emergency capacity shortages. These channels are used on 'anytime' retail tariffs.

E1 Emergency control (residential)	Only off during emergencies (expect less than 2 events per year, lasting up to 2 hours).
E2 Emergency control (business)	The same as E1 (above), but given priority for restoration of supply.

4. Special purpose channels

Many of the load switching channels above are associated with special metering arrangements. We provide separate channels to support independent meter switching, as follows:

S9 Day / Night meter switching	For switching dual rate day/night meters. Switched on from 9pm till 7am.
S10 Night & weekend meter switching	For switching dual rate day/night & weekend meters. Switched on from 9pm till 7am plus all day Saturday and Sunday.

You can find a full schedule showing all our ripple control channels in our guide, *How to use ripple signals on Orion's network*, available from the load management section of our website, www.oriongroup.co.nz.

For further enquiries, contact Orion on 363 9898 or info@oriongroup.co.nz

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