



BROCHURE

FEATURES AND BENEFITS

- + Drives your energy costs down by shifting load to periods of off-peak demand across a wide range of industrial and commercial applications
- + Manages the control of interruptible loads to optimise tariff use, and ensure demand does not exceed targets
- + Highly informative dashboards and extensive configurable reporting
- + Calculates your energy savings and costs for management reporting
- + Integrates with SCADA, meters, PLC's and other control systems
- + Smart targeting, ensures automatic adjustment of targets if devices are turned off
- + Configurable to multiple devices across multiple control groups
- + Full visibility and reporting on events, actions taken, and the outcomes
- + Configurable email alerts for a range of events
- + Multiple logins allows for configurable levels of permission and access depending on individual requirements
- + Site-wide or country-wide

Quasar Control Industrial

From the range of Quasar Control solutions, Quasar Control Industrial (QCI) is a powerful, highly flexible 'Control Engine' providing intelligent control of electrical power systems. QCI puts you in control of your company's energy use and provides you with an intuitive and easy to use interface backed by industry leading functionality.

QCI can save your business money on your electricity spend without compromising your process requirements. It is energy management software that is powerful enough to meet the needs of a nationwide business, whilst being agile enough to be used by a single site business, that doesn't have dedicated energy management resources.

Controlling loads using QCI can be highly beneficial where supply capacity is constrained, or where 'demand' charges are proving costly. Significant benefits can also be achieved through delaying the need for capital expenditure in capacity upgrades.



*Quasar Control Industrial Edition
Dashboard Menu and Charting*

How it Works

QCI can control refrigeration, heating, air conditioning & water pumping systems and has application in any industry where devices can be turned off for periods of time. QCI can automatically shed selected loads to avoid high tariff periods, restores load in low tariff periods and caps demand to minimise peak demand charges.

QCI is stand-alone or can integrate with your existing systems, and provides a signal when conditions are right to turn load off to save energy or restore the load to meet process needs. The system uses configurable rules (algorithms) to switch loads. Rules are set-up at the time of commissioning and can be left to operate automatically or modified as often as needed. QCI will not compromise your process quality, as you set limits to ensure that process variables such as pressure and temperature are never breached.

Quasar Control Industrial is available at 3 levels to suit your business.

	QCI-10	QCI-20	QCI-50
Devices (controllable and input-only) ¹	10	20	50
Device Groups	3	6	Unlimited
Parent Groups		2	Unlimited
Energy Target Modeller	✓	✓	✓
Industrial Rules Library	✓	✓	✓
Active Rules	5	10	Unlimited
Reporting with Scheduler	✓	✓	✓
Reporting Package Compiler		✓	✓
Communication – Industrial Library ²	✓	✓	✓
Communication – DNP 3.0	Optional	Optional	Optional
Communication – OPC Client	Optional	Optional	Optional
WITS Electricity Market Pricing Integration	Optional	✓	✓
Data Interface – Modbus RTU/TCP	Optional	Optional	Optional

¹ Systems with more than 50 control and input devices are possible, and are available on request

² Modbus-RTU, Modbus-TCP, Allen-Bradley, support for all major PLC brands available on request

Dashboards The dashboards have been designed to be user friendly and easy to navigate, and are completely configurable and enable quick access to all parts of the software. When not logged on, the dashboards will automatically display as a slideshow.

Reporting The reporting tool provides a range of scheduled and ad-hoc reporting that is easily tailored to suit the site requirements. These reports can be viewed, saved or emailed automatically as required. The Reporting Package Compiler can pull together all the reports you want, along with external documents into a user defined format that enables ease of reporting. Once set up, the Report Compiler minimises the effort required to produce regular presentable reports to the respective audiences. All of the reports and data are easily exported to other programs if required.

Security QCI has password protection using military grade encryption to ensure the integrity of this critical function of your plant is protected.

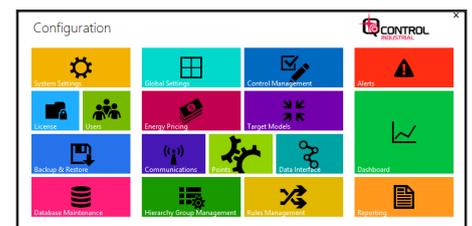
Data Interface The Data Interface feature allows a mapping to be configured such that Quasar Control will behave as a slave device

to another system. This might be used, for instance to accept a target from another system. It also allows the health, status and measurements from Quasar Control to be shared with 3rd party systems such as SCADA or Building Management Systems.

Data Recording This feature allows for the integration and recording of any external inputs into the system for reporting purposes. This could be in the form of weather inputs from an onsite weather station.

Energy Target Modeller

The Energy Target Modeller forms the basis for energy saving calculations, decisions and load shed or unshed actions. The model consists of 48, 30 minute energy targets for each day of the week. During each 30 minute interval, QCI will assess and forecast the energy consumed for the interval and according to filters and rules, control the loads as required. The modeller enables you to set up different models depending on your requirements, for example you can have models set for different electricity pricing plans, or for each season.



Energy Pricing QCI has a comprehensive pricing calculation feature that enables the system to be configured to reflect your pricing model. This includes the scope to incorporate Peak Demand charges that may be charged by your network.

Rules The software utilises an Industrial Rules Library, which gives you the ability to apply any combination of targeted or logical decision rules. This ensures that you can configure the rules so they are 'smart' and react accordingly to the logic and targets set, and can be set to include historical data and external inputs.

WITS Electricity Market

A feed from WITS can be incorporated into Quasar Control Industrial (QCI-20 and QCI-50) to ensure the latest market pricing information can be used for decision making if required.

Harvard Hub Business Park
Unit 9, 1 Stark Drive, Wigram 8042
PO Box 8136, Riccarton 8440
Christchurch, New Zealand

T: +64 3 343 9150
F: +64 3 343 9151
sales@quasar.co.nz
www.quasar.co.nz

Quasar
SYSTEMS LIMITED