



POWER  **COM**



The Powercom Group

Electronic communications

Design, manufacture and installation of electronic communications equipment, lightning and surge protection

Powercom Consultants

Evaluation and design

Novaris

Electronics manufacturing

Powercom Systems

Installation and system maintenance

Datacall Telemetry

Remote system control with mobile phone technology

Welcome to Powercom.

Since 1991 we have been tailor-making electronic equipment and building communications systems for government and industry, in Australia and overseas.

Our business has developed with a focus not only on designing and manufacturing high quality products, but also on building the capability to deliver complete solutions to whatever problem (or challenge) our clients might have. We have learned that in our highly complex industry every job is different, and there is often more than one way to solve a problem. We can evaluate the situation, design a solution, manufacture the equipment, install it, maintain it, and train your people how to make it work.

A complete package.

What is the Powercom Group?

The Powercom Group comprises four high-tech business units.

Powercom Consultants is the nerve centre of the operation. Here we evaluate our clients' needs, design the equipment that will help them to achieve their goals, and manage the entire project from start to finish. Our manufacturing division, Novaris, builds the required electronic equipment to exacting world standards. Powercom Systems takes our products and skills into the field and builds the infrastructure that makes it all work. Datacall Telemetry uses mobile phone technology to control remote systems, and is a fine example of the Group's problem-solving skills in action.

The four units work together as an impressive team, each supporting the others. We manage projects in some of the most difficult environments on earth, and our clients get exactly what they want. We are very proud of the way our dedicated engineers, draftsmen, technicians, riggers and support staff cooperate to provide the very best in a demanding industry. The right people have built a unique business.

Our experience extends from Australia to the Pacific, Asia, Africa and the Middle East, where we have installed our communications facilities and lightning protection systems. We are looking forward to an even bigger, brighter future, which relies on our continuous development of products and services to keep pace with the modern world.

And we invite you to join us.

Following is a short profile on each of the companies that form the Powercom group. We welcome your enquiry and look forward to discussing how Powercom can help your business.

Powercom Consultants

Evaluation and design

Powercom Consultants is the evaluation and design arm of the Powercom Group, with expertise in electrical engineering, construction of communications systems, broadcasting, lightning protection and electronic design. We are actively engaged in research and development for government and industry, for both the domestic market and export.

Good planning is crucial to the success and affordability of any project. Powercom Consultants coordinates every assignment – conducting the scoping and site assessment, designing and building the equipment (using Novaris) and planning and managing installation and operational training (using Powercom Systems). Our ‘across the board’ capabilities enable us to give our clients precisely what they need – from a CDMA network on King Island, to a telecommunications service on the outer islands of Kiribati in the Pacific. Environmental management is always an important part of Powercom’s activity.

Our speciality is in providing lightning protection, earthing and surge protection for a wide range of industries. We can advise on power conditioning solutions and monitor power quality for surge and transient disturbances, noise and power system harmonics. We’ll recommend the most cost effective means to improve your application. Powercom has extensive design experience in the fields of microwave radio, TV and broadcasting, PABX systems and networks, mobile radio and the provision of power supplies for remote sites with high dependence communications equipment.

We offer logistical solutions to demanding problems. Talk to us about a solution for you?



Solar powered microwave station, Kiribati

Novaris

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Novaris

Lightning and surge protection

Each year millions of dollars of damaged equipment and lost time can be directly attributed to lightning strikes and other electrical disturbances. Around the earth lightning strikes 100 times per second, or 8,640,000 times a day, on average.

Novaris has designed and manufactured lightning and electrical disturbance protection systems since 1993. We specialise in the protection of power and data signalling. Our products are in use locally, nationally and internationally, and we are now world leaders in lightning and surge protection technology.

At our Australian headquarters we operate a full time research and development group, employing professional engineers, technical officers and drafting support staff. Our testing laboratory is capable of generating and measuring simulated lightning impulses in accordance with world power and telecommunications standards. We also have offices and distributors throughout Australia and worldwide.

We design, supply and provide advice on structural lightning protection and earthing systems for all structures in accordance with recognised world standards. Our products range from main switchboard and distribution board surge protection, PLC and control system protection, to RF coaxial cable and telecommunications protection. Their quality, performance and reliability is second to none.

The 'Novaris Systematic Approach' is a step-by-step method for lightning and surge protection that can be applied to any installation.

Please call us to discuss how Novaris can protect you.

The world's tallest residential tower Q1 Tower Gold Coast, Queensland. Lightning and surge protection by Novaris.



Powercom Systems

Installation and system maintenance

Difficult jobs, challenging places

Powercom Systems is the installation and maintenance division of the Powercom Group, specialising in power, communications and electronic systems engineering. We have built communications systems in some of the most difficult places on earth.

Our engineers, technical officers and riggers have installed communications, broadcasting and lightning protection systems in Australia, the Pacific, Asia, Africa. We have workshop facilities with electronics tradesmen, sheet metal workers and fitters-and-turners who build the equipment ready for installation on site. Using the logistical planning capabilities of Powercom Consultants we coordinate the construction of supporting structures, installation of equipment and staff training, and maintain the entire system for fault-free operation. We work closely with government and locals to ensure that the people using the facilities are fully trained to use the equipment properly, and offer our expert service as an 'on-call' back up.

We've installed telecommunications and television services in Kiribati, lightning protection equipment in Myanmar, Ghana and Sierra Leone, and worked with Telstra and SBS Television in Australia.

We can bring our remarkable capabilities in remote construction to you. Please call us to find out how we can build a communications system for you, wherever you might be.

Powercom's Craig Conlan explains the finer points of telephony





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Datacall Telemetry

Controlling remote systems with mobile phone technology

Datacall Telemetry designs and manufactures new technology that allows you to monitor and control your remote systems using a mobile phone, replacing traditional hard-wired SCADA (system control and data acquisition) systems. This is known as 'cellular telemetry'.

Datacall is a result of the efforts of the other members of the Powercom Group, who worked together to develop this innovative product. Like all good ideas, Datacall is simple and easy to use. You can send a message over your mobile phone to start, stop, control and monitor just about any remote device using SMS (short message service). A Datacall network can be as small as a single unit monitoring a pump station or as extensive as thousands of units controlling a countrywide television network.

If a problem occurs, say a pump fails or pressure becomes critical, a remote terminal unit with a cellular modem will send an SMS to your mobile phone with an alert message – in real time. The programs can be controlled using a laptop computer, and you can monitor the entire system on the internet.

The equipment we use for the Datacall system is typical of Powercom's products: high quality, durable and reliable. The new wireless technology is highly cost efficient, and easier to install than traditional systems.

Control your operations the easy way – your people are mobile, so let them monitor your equipment via mobile phone technology.



*Datacall monitors oxygen and temperature,
Tassal salmon farms Tasmania*

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