Capability Statement

pacific data systems Australia

Solutions. **Technology.** Simple.

COMPANY OVERVIEW

Since establishing in 1984, Pacific Data Systems Australia has been providing custom environmental monitoring, data acquisition and system integration solutions across a broad range of industries, including mining, oil / gas / energy, construction, manufacturing, agricultural, postharvest, government, transport, health, security, and waste management.

In addition to custom solutions and systems integration, we are also a major specialist provider for off-the-shelf scientific and industrial instrumentation.

Our range of products and services has expanded substantially over this time, to the extent that we are now one of the major specialist providers of these solutions across Australia, as well as abroad.

Our Vision...
'To be your number one global partner for interactive solutions.'

Our Purpose...
'To provide the most comprehensive range of quality solutions for our partners and deliver the best outcomes.'

FOCUS INDUSTRIES

- Agri / Aquaculture
- Building / Construction
- Energy / Oil / Gas
- Government (Local, State, Federal)
- Manufacturing
- Medical / Health
- Mining
- Post-harvest
- Security
- Transport
- Waste Management
- Utilities

OUR TRACK RECORD

Throughout our 34-plus years of operation, Pacific Data Systems has successfully worked with a range of national and international governments, as well as major companies.

These include (but are not limited to):

- BHP/BHP Billiton

- Xstrata

- QLD and Interstate Police

- Fed Govt: Department of Defence

- Leighton Contractors

- QLD Govt: Department of Natural Resources Mines and Energy

- University of Queensland

- Local and Interstate Councils

- QLD Govt: Department of Transport and Main Roads

- Port of Brisbane

- Thiess

- St Vincent's Hospital

- Anglo American Metallurgical / Anglo Coal

- QLD Govt: Department of Science, Information Technology and Innovation

- Worley Parsons

- Village Roadshow Theme Parks

- VIC Roads

- Rio Tinto

- Thermo Fisher Scientific

- Sibelco Australia

- Stanwell Corporation

- AusTrans Group

- Rombola Family Farms

- Santos

CORE CAPABILITIES

Customised Data Logging & Process Control Systems

We specialise in designing and manufacturing turn-key, integrated monitoring and process control systems. We have worked with a broad range of industries to deliver innovative solutions including weather stations, water quality monitoring stations, condition monitoring & control of pumps, solar energy research and more.

Weather & Water Quality Monitoring

Pacific Data Systems Australia have over 30 years' experience in environmental monitoring systems. Our weather stations range from the economical Davis Weather Stations through to our own integrated solutions, with a variety or comms options. Our customised in-situ water quality monitoring stations can assist with your environmental compliance requirements.

Air, Dust & Emissions Monitoring

We provide ambient air monitoring solutions that require either short or long-term assessment of pollutant levels in the surrounding, outdoor air. We also supply diesel particulate & diesel emissions measurement instruments that can assist in drastically reducing harmful emissions in underground mining environments.

System integration for remote telemetry

Whether dealing with 3G / 4G, long-range wireless radio or satellite infrastructure, we supply a range of telemetry and communications solutions to suit all your remote data communications projects. Available for purchase as stand-alone devices or ask us about our custom systems development and integration services.

CORE CAPABILITIES

Drug & Alcohol Detection Solutions

Our range of Australian Standards AS 3547-1997 Certified breathalysers are a popular choice in zero-tolerance and dangerous workplaces including mining, transport, construction and emergency services. We also supply AS/NZS 4308:2008 Certified drug testing kits that use only quality components to greatly reduce the potential for false positives and false negatives.

Intrinsically Safe Air Velocity Meters

Our Kestrel-IS Intrinsically Safe Pocket Meters are used for monitoring air flow, heat stress (& more), in underground mine ventilation operations. These handheld devices hold a Certificate of Conformity for Explosion-Protected Electrical Equipment AUS 02.2538 (to Ex ia I IP55), issued by the Safety in Mines Testing and Research Station (SIMTARS).

Post Harvest Technology Solutions

We supply the latest, proven postharvest technology solutions - fixed or portable - that assist in improving the overall quality of fruit & vegetable commodities. Whether you're looking for ethylene & airborne pathogen removal technology, humidification or you need to monitor, control, ripen, degreen, or store commodities, we can assist.

Research & Development

We offer Research & Development services to help you bring your idea or solution to commercialisation. The R&D project team will transform your product into a working prototype. With inhouse access to the latest technology including 3D printers and an Autotronik Pick and Place machine we can streamline your project and reduce development costs.

SIGNIFICANT PROJECTS

We've been involved in a number of significant projects throughout the years - from concept design through to field implementation.

These include (but are not limited to):

Sibelco > M2M Communications Solution

Multi-national mining corporation, Sibelco, runs the longest continually operating sand mine in Australia. As part of its operations, regular measurement of water quality and levels of bores is required to meet government regulations and minimise any negative impact on the environment. Due to thick vegetation, gathering this data was previously done on foot - requiring two workers for safety reasons. Sibelco turned to Pacific Data Systems to automate the process, which lead to the development of SatVUE - a comprehensive, M2M satellite comms-based solution capable of collecting, processing and transmitting the required field data to a central location without human intervention needed on site.

Bondor InsulLiving® Home > Energy Usage, & More

In 2011 leading Australian building products business Bondor constructed an eight-star energy efficient InsulLiving® Home in Burpengary, Brisbane.

Pacific Data Systems designed, commissioned and assisted in the installation of a turn-key data logging solution to monitor energy usage and environmental conditions both inside and outside of the Bondor InsulLiving® Home. This project allowed designers, builders and home owners to clearly see the energy and cost saving benefits that the InsulWall® and SolarSpan® products could provide.

Collinsville Power Station > Solar Tracking & Weather

In conjunction with Collinsville Solar's project consultant, Pacific Data Systems designed an innovative solar tracking station.

By incorporating an active solar tracker and pyrheliometer for monitoring direct solar irradiance, the solution constantly tracks the sun's position. When cloud cover prevents monitoring of the sun's azimuth and elevation, the solution is able to revert to passive tracking to ensure only a small degree of drift occurs. When the cloud clears, the solution reverts automatically to active tracking.

•OUR PARTNERS

Whether off-the-shelf, or part of a larger systems' integration solution, we source only the best-available technology from the most well-established partners. This ensures the most suitable solution is implemented, in accordance with our clients' monitoring requirements.

These include (but are not limited to):

dataTaker	VAISALA	inmarsat
AST	Dräger	Miatech
FELIX INSTRUMENTS	GE Measurement & Control	Kestrel Pocket Weather Meters
PONSEL GROUPE AQUALABO	Panasonic	ThermoFisher SCIENTIFIC

•OUR BRANDS

We supply products and services to various vertical markets under the following registered business names:

DrugDetection Solutions — Drug Detection Solutions offer breathalysers and drug testing kits for workplace and traffic safety applications. Our AS 3547-1997 Certified breathalysers and AS/NZS 4308:2008 Certified drug testing kits are a popular choice in zero-tolerance and dangerous workplaces.

FreshView POST HARVEST TECHNOLOGY SOLUTIONS — We supply the latest, proven post harvest technology solutions - fixed or portable - that assist in improving the overall quality of fruit & vegetable commodities.

SatVUE SMART REMOTE MONITORING — SatVUE...is a low-cost smart remote monitoring solution utilising satellite communications (two-way) to reliably collect, store and report data that can be accessed from anywhere in the world via an internet enabled computer or mobile device.

SPOKEdata — A true plug 'n' play device, the SPOKEdata device offers off-the-shelf monitoring solutions for a broad range of applications for industries including environmental, industrial, construction, manufacturing, process management, scientific, agriculture, and education.

LEADERSHIP TEAM

Paul Gapes - GENERAL MANAGER

Paul is the General Manager and driving force behind the company's practical, solution-focused approach.

Gaining his first exposure to smart electronics as an Electronic Warfare Analyst in the Royal Australian Navy, Paul has acquired unique insights into project management, product certification and supplier networks in the electronics field, and a deep respect for client companies' requirements for practical solutions that work in the field, not just in theory. His work with State and Federal Governments, Energex, NQBP and LendLease has provided detailed industry knowledge with great relevance for PDS. In addition to his role steering Pacific Data Systems, Paul plays a pivotal role liaising between mining, exploration, transport, environmental and government entities with unique needs for smart devices, and the company's internal Research & Development team.

Under Paul's guidance, Pacific Data Systems continues to lead the industry by developing innovative products that are technically advanced, fit for purpose and easy to use in the field.

Matt Weychardt - FINANCIAL CONTROLER / OPERATIONS MANAGER

Matt is the Financial Controller and designer of many of PDS's processes and procedures.

Having previously worked with Budget Direct and Collection House, Matt brings to PDS deep experience in ERP integration, development and training, foreign currency risk, import costing, customs processing, budgeting, financial reporting, financial analysis, sales data analytics, ISO9001, auditing, surveillance and logistics. At PDS, Matt is responsible for managing the administration, Quality Assurance (ISO9001) and accounting functions.

Matt is fascinated by processes, especially process strategy, planning and ongoing improvement. He also has a keen interest in ERP data and how it can be used to manage technical scope of works, maximise business opportunities, achieve greater customer satisfaction and value, and improve sales and business forecasting

Matt is a CPA (Certified Practising Accountant) and holds a Bachelor of Commerce (Accounting) from the University of Queensland. He is also part of the Queensland Leaders.advanced, fit for purpose and easy to use in the field.

David Hugman - PRODUCTION MANAGER

David is the Production Manger and champion of quality manufacturing at PDS.

David's title as production manager understates his role which is broad-reaching, and includes responsibility for manufacturing, installation and repair of a variety of PDS products. His particular speciality is electronics, and his skills include schematics, PCB (printed circuit board) manufacturing, assembly and wiring, and manufacturing resource planning.

With former employers including Queensland University of Technology and Video Pro, David's main interest before PDS was in installation and maintenance of professional and broadcast video equipment. Being complex and intricate, the skills learned in this field have been of great practical benefit to PDS.

David's passion is quality in manufacturing. It is important to him that, if customers have to travel 10 hours to install PDS's devices, they can leave them on site with confidence, knowing they will operate reliably with minimum need for maintenance. His down-to-earth, practical approach translates to high performance and reliability for PDS products.

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