

DESIGN



Designed correctly, your field instrumentation system ensures productivity from the earliest stages of your production life cycle.

Whether you are building a new plant, expanding your existing plant or optimising current processes to get more out of existing assets, MIPAC has the experience to create the best Instrumentation Design for your business.

From the simple to the complex, we have a proven track record in delivering cost-effective solutions. You can be confident that our combination of practical industry experience and extensive Design knowledge means that MIPAC will deliver a first-class result for your business.

Ultimately, Design by MIPAC means more money in your pocket as your plants are running closer to their optimal economic point.



I have found (MIPAC) to be highly efficient, very responsive and produce top quality work. I would not hesitate to recommend them to others and will most certainly use them again myself in the future.

Michael Holmes,
Project Manager,
Bateman Engineering Ltd

- Increase your productivity
- Improve your production quality
- Grow your profit margins





MIPAC - Helping you achieve operational excellence through superior Process Control

MIPAC is a respected provider of process control, instrumentation and electrical engineering solutions to major, complex processing and production facilities. MIPAC specialises in industries such as pulp and paper production, minerals and metal processing and serves renowned companies such as Xstrata, BHP Billiton and Norske Skog. MIPAC employs some of the industry's most talented process control engineers and we have worked on more than 100 projects in over a dozen countries.

Learn more at www.mipac.com.au.

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MIPAC's Design team has extensive, practical Electrical / Instrumentation expertise and we offer a complete range of electrical and instrumentation design services.

Electrical Design

MIPAC's electrical design group has a vast depth of experience which enables us to deliver a safe, well engineered electrical design. Several of our engineers are ex tradespeople, so their engineering skills are reinforced with their practical experience.

Process and Instrument Diagrams

MIPAC's detailed design develops from the Process and Instrument Diagrams (P&ID). We can assist greatly with the production of the project P&IDs. Our experienced Instrument Engineers and Drafting team work closely with you to ensure the P&IDs are of a high quality, ready for approval and ready for detailed design to begin.

Instrumentation Field Equipment Selection and Specification

Specification of the most suitable field equipment for your plant is critical. Our engineers provide an objective evaluation and recommendation on the most appropriate instrumentation to meet all your measurement and control requirements. Our high quality, ISA based Instrument Datasheets provide unambiguous information to ensure the correct equipment is supplied for your project.

Field Instrumentation to/from Control System Signal Transfer

MIPAC's Design teams have extensive experience in all of the information transfer media:

Traditional Signal designs using hardwired concepts: MIPAC's extensive experience enables us to produce the necessary termination and connection diagrams very efficiently.

Fieldbus: Due to the vast array of fieldbus technologies on the market, the selection of a suitable fieldbus can,

at times, be a little overwhelming. MIPAC's Design group can cut through the sales hype and give an independent recommendation on the best system for your application. MIPAC can design the signal transfer system to utilise the particular advantages offered by the selected technology.

"Approved for Construction" Packages

MIPAC's Design systems ensure efficient production of project drawings and documentation. Our Design teams deliver high quality Equipment Layouts, Electrical Schematics, Cable Block and Cable Schedules, General Arrangements, Termination Diagrams, Installation Diagrams, Installation Specification and "Scope of Works" Documents.

Project Commissioning Services

MIPAC's highly regarded commissioning services ensure you achieve rapid ramp-up to plant capacity. We achieve this by:

- Our commitment to site safety which has given us an incident free record
- Thorough pre-commissioning checks to minimise start-up delays
- Focussed and efficient checklists with automatically generated progress reporting
- An understanding of the process and a focused approach to plant start-up.

Why choose MIPAC for your Design needs?

- Instrumentation specialists with extensive operational experience
- Supplier independence to ensure objective equipment selection and specification
- Specialised design tools for efficient results
- Cohesive approach for electrical and instrumentation designs
- Experienced with all instrumentation and mainstream data transmission systems
- Thorough field inspection to ensure a safe, high quality installation and smooth commissioning