



Newsletter: Christmas Issue

Welcome to Bramco's Christmas Newsletter.
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- Next Generation Control and Protection.
- Conveyor Control overview.
- Next Generation Earth Continuity/Pilot Control relay.



Best wishes for Xmas 2009

Can you believe its December already!! 2009 has been another big year for updates and improvements at Bramco.

Of late we have commenced a complete overhaul of our product range and we are continuing the release of our next gen b3 range. Please visit www.bramco.com.au to view the entire b3 range, most of which is designed to suit the challenging environments prevalent throughout the mining industry.

Once again, mining has proven to be critically important for the Australian economy during 2009. There are some exciting developments under way for 2010 – and mining will continue to provide the back-bone of the Australian economy.

During the Xmas break, the Bramco office will be **closed between Friday 18 December 2009 and Monday 4 January 2010.**

We will have a full team of staff on call to cover any or all customer issues requiring attention. A full list of Xmas contact details is available at www.bramco.com.au.

May we take this opportunity to thank you for your valued business throughout 2009 and we look forward to being of service to you in 2010 and beyond!

Next Generation Control and Protection

Bramco's next generation Control and Protection Module cpm3, comprises a new range of single or multifunctional microprocessor based intelligent relays for monitoring and protection of outlets supplying power to mining machinery.

The cpm3 is the most advanced integrated outlet, motor and feeder protection unit we have developed to date. It features a multi-processor architecture, including a powerful Digital Signal Processor (DSP).

High-precision 16-bit Analogue to Digital Converters (ADC's) are used to sample the voltages and currents, and digital filtering techniques are used to provide extremely accurate measurements and a wide dynamic range.

The cpm3 has a host of connectivity features, including Ethernet, multiple Modbus RS485 ports and USB. A remote button interface will ensure easy installation in I.S. environments.

It offers latest gen megger insulation testing, fault and diagnostic functions, earth continuity with extended measurement range and advanced earth leakage protection for VSD drives inc high frequency analysis.

cpm3 is designed to cover various areas such as 66kv equipment, 1100v equipment, 3300v equipment and 415v equipment. Upon release, it will be suitable for use in key Australian Mining markets (eg NSW, QLD, WA etc) and important export markets (Sth Africa, USA etc). It will also comply with all relevant Australian standards, NSW and QLD Department of Mineral Resources guidelines, Coal Mines regulations and Act and the Occupational Health and Safety act.



Who do i Contact?

If you require any assistance or support during the Christmas period please contact the following members of our team:

Technical Enquiries

Les Hollands
Ph: 0418 685 903
les@bramco.com.au

Chris Bird
Ph: 0402 067 345
chris@bramco.com.au
support@bramco.com.au

For an immediate response please contact:

Sales Enquiries

Adam Fisher
Ph: 0438 977 797

Mark Leishman
sales@bramco.com.au

Customers may also leave contact details on the dedicated Bramco phone message service.

These will be checked regularly and returned.

General Enquiries Call: (+61) 2 4014 4444

Bramco Partners

Bramco currently has a large partner network. All of Bramco's partners have extensive backgrounds in mining and general industry and offer Bramco's leading edge products and provide an important communication and service link.

Your qualified Bramco Partners are always available to provide vital Sales information and Technical Support.

Bramco qualified partners include:

Importantly, the cpm3 is fully backward compatible with existing CPM1 installations, and will be a direct drop-replacement for an existing CPM1 module.

For new installations, the cpm3 will provide additional measurement parameters such as active, reactive and apparent power, RMS phase voltages and currents, power factor, and many more.

cpm3 simply offers more features and functionality than can be described in any newsletter.

We welcome any opportunity to demonstrate this exciting product, to provide more detailed information or invite you to visit www.bramco.com.au for the complete b3 range.

Need Conveyor Control?

The Bramco Conveyor Control System is both powerful and flexible and offers latest diagnostics, performance logging and "run-time" statistics. All faults along the system are displayed on the control screen.

We have to date supplied over 300 systems to such countries as Australia, Sth Africa, Zambia, USA, Brazil, Ukraine.

The Bramco Conveyor Control system embodies the requirements of OH&S Acts, duty of care and is operationally Totally Fail Safe.

Bramco is the only company with the ability to control systems over 30km in length from one system and one location. We provide multiple stop start controls and the HOW, WHEN, WHERE & WHY the conveyor is tripped.

We have control solutions ranging from the simply short quarry conveyors to the longest and most complex of overland conveyor installations.



BK400S – Single Shaft



BK400D – Dual Shaft

Latest conveyor control development – full on site diagnostics – an incredibly powerful and beneficial tool.

We are pleased to introduce our **ICMS Diagnostic Package** which will enable full analysis of your conveyor monitoring system.

Features provided include recording of performance statistics, specific technical data such as voltages/current and data performance. These can all be stored on PC for analysis, for tabling in meetings, for early identification of performance concerns etc.

To ensure full support from Bramco's team, all statistics and results can be emailed to Bramco for technical assistance/ support/ resolution. Thus, the Bramco team can provide full support remotely and at any time required, which offers tremendous benefits to sites in remote locations.

The ICMS Diagnostic Package is a proven solution, having been implemented by a number of sites that are successfully engaging the ICMS conveyor control solutions.

We welcome any opportunity to demonstrate this exciting product. And for a full conveyor overview, news and product information visit www.bramco.com.au

Next generation – b3 Earth Continuity/Pilot Control Relay

Compliant to latest statutory and industry standards, the ic3 Earth Continuity Relay has been designed to actively monitor the Resistance of the Pilot Earth circuit in a supply cable by termination with either a diode or machine recognition device.



The ic3 utilises latest/advanced intelligent microprocessor technology to provide a more reliable level of stability over longer pilot cables by using digital filtering algorithms.



The microprocessor also performs continual self diagnostics to prevent false tripping or failure to operate. Upon release, it will be suitable for use in key Australian Mining markets and important export markets (Sth Africa, USA etc). It will also comply with all relevant Australian standards, NSW and QLD Department of Mineral Resources guidelines, Coal Mines regulations act and the Occupational Health and Safety act.

- [Cristaudo Industrial Electrics – CIE](#)
- [R&D Technology](#)
- Dynamic Electrical Construction – DEC
- [Pacific Automation](#)
- [G&S Engineering Services](#)
- Bramco – South Africa
- [EMIS Sales 2002 – South Africa](#)
- [Bradford Stuart Industries - USA](#)
- [Genesis - Brazil](#)

Key features include:

- Local/Remote Operation.
- Latching and Non Latching mode selectable.
- Added protection of Pilot Node Addressing.
- Isolation to 1KV (with possible 3KV option)
- Designed to operate over long trailing cables.
- Digital Filtering for increased ability to reject noise and prevent false tripping.
- Variable trip resistance
- Variable trip time
- RS485 Modbus RTU/ASCII comms facilities
- Modbus TCP

We welcome any opportunity to demonstrate this exciting product. Visit www.bramco.com.au for the complete b3 range.

Partner update

Bramco is proud of its partnership in Sth America with Genesis Engineering.



Genesis possess a wealth of mining experience. Capably lead by their Technical Support Manager (Emilio Pinto), Genesis is based in Belo Horizonte, Brazil.

Emilio has strong field experience with Bramco conveyor control products. Emilio is highly experienced in interface systems regarding profibus, devicenet and modbus.

Genesis Engineering lists their core specialties as:

- Design, supervision , commissioning, start-up and assisted operation in instrumentation, control, electrical and process automation
- Industrial field networks
- Technical specifications
- Training in SCADA software
- Training in field networks
- Maintenance of PLCs, SCADA and instrumentation
- Technical translations

Emilio is fluent in Portuguese, English and Spanish – more detailed information about the excellent Company is available from (www.genesis.eng.br).

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