



Bramco Electronics, Warabrook NSW

bramco

ELECTRONICS

Newsletter

May 2010

100% Australian Made 100% Australian Owned!

Founded in 1945, Bramco design and manufacture innovative electronic control, protection, monitoring and safety products.

100% Australian, with the same owners for over twenty five years Bramco is committed to mining and general Industry.

Originating in Australia, Bramco distributes to South Africa, Brazil, Peru, Finland, New Zealand, Turkey, Thailand, Ghana, China, the Ukraine, USA, the United Kingdom and Zambia.

Bramco products help maximise the efficiency and cost effectiveness of your operations. Our range of simple relay units and complex suites of electronics using the latest technologies are designed with this in mind.

nIm3 Coming soon

Leaders in Innovative Protection Systems, Bramco's nIm3 is compliant with latest statutory and industry standards. The Bramco Neutral Grounding Monitor relay (nIm3) is designed to continuously monitor a supply transformer, secondary star point to earth resistance, either directly or through a current limiting resistor.

Our new Backlit LCD for menu display provides set up and operating information – making the NLM totally user friendly. Operating information is also provided with LED indication for Earth Leakage, Over Voltage and Neutral Earthing Resistor.

The nIm3 monitors the Limiting Resistance integrity, excess phase voltage rise, neutral earth leakage current, with coordinated trip delay.

NGM (nIm3) interfaces to the Neutral Limiting Resistor using an internal/external coupling inductor, depending on the system voltage.

Earth Leakage Current is monitored in the neutral to earth circuit using an external EL toroid (EL monitoring optional, ELT not included).



A01243 - nIm3 Neutral Link Monitor

Pump Control Module - Low price - flexible - robust - in stock now - 100% Australian made.

- The PCM provides pump control (fully or partially submersed or otherwise) by monitoring the current used by a pump and differentiates between load and no load currents.
- A powerful adaptive control algorithm is used to vary the pause and run cycle times for effective automatic pump control.
- Multi configurations provided inc adjustable "snooze" current level with LED indication of above or below snooze setting, as well as six advanced snooze curve timing selections. This means the relay is constantly checking (automatically) for you – within your preferred time frame – if there is water that needs to be pumped.
- Flexible DIN rail or rear panel mounting, easily installed – user-friendly and easy to set up.



Pump Control Standard Module	Pump Control Module
Automatic Mode	Manual and Automatic mode selectable
One CT covers four selectable ranges with 200:1 CT supplied	One CT covers four selectable ranges with 1000:1 CT supplied
Output relay for Run	Output relay for Run and Alarm
	4-20mA output for motor current monitoring with LED indication when active

CPM1-Plus... Now with Ethernet!

CPM now provides Ethernet! Using a proven, easily configured interface linking Modbus serial devices (CPM Modules) and computer hosts operating Modbus/TCP on an Ethernet networks.

Features:

- 'Bridge the Gap' between the serial MODBUS port on the CPM1-Plus and your Ethernet control network.
- Suitable for all existing CPM1 'Smart' products.
- Direct module control using your PLC.
- Support for multidrop CPM1 networks – only one interface is required per network.
- Simple setup process, and it operates transparently on your Ethernet network.

Specifications:

- 10-30VDC Operating Voltage.
- Dimensions - 70H x 130W x 30D.
- Operating Temperature - 0-60°C.

Ordering Information:

A00531 CPM1 Plus Module
A01240 CPM1-Plus-2 Module

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Never worry about Slack Wire Protection again.

Slack-wire switches operate by monitoring the pull-wire tension on a conveyor. With correct tension present, the switch is activated. In the case of wire breaking or stretching of the wire the switch is released and thus switches the system off. In addition, this signal can depend on the construction of the system generate an optical or acoustic indicating or warning signal.

There are two basic models of the BK400:

BK400S: is a single trip shaft key. In operation a pullwire is required to be coupled to each end of the key trip shaft. This key requires a balance operating condition. The BK400S is specifically designed to provide temperature compensation for the pullwires and provide for distances of greater than 200m spacing between keys.

BK400D: is a dual trip shaft key where each trip shaft is completely independent of the other. The key is designed for up to 200m spacings and may be operated as a single ended key if required.

The unit can accept up to 6 cable entries, With 40 terminals no extra junction box is required to marshall cables.

The BK400 enclosure is cast from Aluminum or zinc (for underground coal mining applications) and is the most robust enclosure on the market today, meeting the requirements of AS 60529-2004 with a rating of IP66.

Both models are designed to comply with the requirements of AS1755 - 2000 and AS4024 when installed to Bramco's recommendations.



Ordering Information:

A01070 BK400S - Single Shaft
A01089 BK400D - Dual Shaft

Need Dust Suppression for your Mineral Stock Piles?

Industry and Investment NSW has released the results of a study into the levels of airborne dust found at the state's coal mines. The investigation revealed that longwall mining operations in Newcastle and the Hunter District had the highest frequency of excessive dust levels.

The studies were designed to test the effectiveness of legislation introduced in December 2007, which required the levels of inhalable dust in coal mines to be limited to 10 mg per cubic metre.

"The results to date indicate that improved dust control measures will be required in the underground coal mines of NSW," the Government said.

The Government recommends mines implement dust suppression equipment, like water sprays or isolation or capture technology and make sure they are regularly maintained.

Extract: Australian Mining, 8th March 2010.

Bramco's ICMS-DS (Integrated Control and Management System - Dust Suppression) allows a remote PLC to control and monitor a network of water sprayers, which can be distributed over a large area.

The purpose of which, is to provide an intelligent stockpile dust suppression system.

Brambus networked control of up to 239 dust stations, spaced up to 1000m apart with a fast RS485 Modbus interface to the control module, allowing the PLC to control individual dust stations, as well as retrieve detailed status information.

A Local LCD display provides a status summary of the entire system, for quick reference.



BK400 Lanyard Key, Now with Optional Signal Flag.

Bramco has responded to calls from our customer's to add a signal flag to our lanyard switches (BK400 Pullkeys).

With the optional signal flag, operators can now visually see a tripped switch from large distances, with a signal wired back to the PLC or indication panel.

By design the key and installation complies with the requirements of AS1755 2000

