

[ISSUE 3] AUGUST 07

NEWSROOM

INDUSTRIAL SWITCHGEAR & AUTOMATION SPECIALISTS

Remote project success in Christchurch



FEATURES

- JLE service broadens NHP's network across both islands [P 2](#)
- NHP solutions deliver practical and effective results in the remote area of North Canterbury [P 3](#)
- It's official! NHP no.1 distributor for Electronica Santerno VSDs [P 2](#)
- NHP's unique network of resources, facilities and skilled personnel spans Australasia [P 4](#)
- With over 100 year's collective experience, meet the team from Motor Control [P 5](#)
- Terasaki's TemBreak 2 series is proving to be a success with NHP customers [P 5](#)
- Latest additions to the extensive NHP range of automation and switchgear solutions [P 6](#)
- New Zealand has the best seat in the house with customised chairs from Spohn & Burkhardt [P 7](#)
- AS-i Safety at Work package provides the highest level of safety for hundreds of New Zealand workplaces [P 7](#)
- The .steute TOZS 80 emergency pull-wire switch makes an impression [P 8](#)





Lloyd Thomas
Managing Director / CEO



NHP

NEWSROOM

Managing Director/CEO NHP

Lloyd Thomas

New Zealand Manager

Craig Vallance

Editor

Nicola Culham

Design & Layout

Digital Prepress

Print Production

Mark Rosser

Contributors

Craig Vallance

Peter Pumpa

George Janiszewski

Chris Brandon

Phil Fraser

Jon Rodaughan

For further product

information please

email marketing@nhp.com.au

Pro-active partners for progress

While many companies may refer to their suppliers as 'partners', at NHP we believe in paying more than just lip service to such claims. We develop committed long-term partnerships with our suppliers – on behalf of our customers – in order to source, evaluate, co-develop, distribute and service the very best electrical engineering products on the market, from every corner of the globe.

The degree of interactive product research and development may vary from partner to partner, but our goal in these co-operations is always the same – to bring to you the world's best products, backed by world-best sales and support, to meet the most exacting requirements.

Ensuring that our customers have the widest choice of suitable products available is not always easy – and often, if the technology can't come to us, then we must seek out the technology. Every year, as part of an extensive, ongoing product sourcing program, we send our sales and technical teams overseas to the must visit exhibitions on the international calendar.



It was at just such an exhibition that the Elettronica Santerno Sinus Penta series of Variable Speed Drives (VSD) first came to our attention. What evolved from that point exemplifies our pro-active approach to partnering and aptly demonstrates NHP's role as a facilitator of developmental technology. The outcomes have, of course, been win-win for supplier and customer alike.

While we were all impressed by the ultra-flexibility of the range, and despite the fact that Elettronica Santerno had an international reputation, our experience and inside user and market knowledge told us that some technological, mechanical and user-interface improvements could be made. Over the course of many visits to Elettronica Santerno's

headquarters in Imola, northern Italy, our experts evaluated product performance and features. In turn, their software and hardware design teams visited NHP to get a first-hand view of our operating environments. Adjustments were made, modifications were incorporated, and special features and functionalities installed.

There were changes made to the language displayed on the LCDs, making the interaction more familiar and user-friendly. Comparisons were made with competitive equipment already available locally, ensuring that Sinus Penta would not only meet, but exceed their feature offerings. Climatic and environmental differences between New Zealand / Australia and Europe were also taken into account – protecting components and circuit cards from tropical moisture were a priority.

Conformance with local safety standards was not an issue – these VSDs meet and exceed current requirements. Each drive is equipped with safe torque off for ultimate fail-safe protection.

As it turned out, these co-engineered product developments not only tailored the range to New Zealand and Australian users and conditions, they have also made Sinus Penta more marketable in other countries as well. And of course, our Australasian customers now have access to a full product spectrum that wasn't previously available to them. So everybody has benefited.

Most importantly, like any products we bring to this market, the new range is serviced and supported by our own core team of factory-trained Sinus Penta application and service engineers, offering comprehensive drive support to the industry.

Now officially launched via a series of enthusiastically attended roadshows in capital cities and regional centres, the Sinus Penta series has elicited a very positive response from local industry.

In fact, such has been the level of interest, many units were sold pre-launch. Like all NHP products, this new range offers unrivalled drive flexibility and adaptability – selected for New Zealand and Australia and suited to New Zealand and Australian requirements.

So, the very important process of continuous improvement goes on. This year we will once again be searching for new innovations and continuing to work with our partners to ensure we bring to you, our customers, the very best the world has to offer.

JLE service expands NHP network

NHP has signed a service agreement for Santerno drives with JLE Electrical, broadening our service network right across both islands.

"The new relationship will be terrific for our customers," explains NHP New Zealand Manager, Craig Vallance. "It means that wherever they are or whatever their needs, our JLE specialist contractors will be just a telephone call away."

JLE Electrical Ltd was started in February 1999 and, since then, has grown into a sizable New Zealand electrical company with a reputation for specialist industrial work.

Charles Holm, JLE's Group Commercial Manager, says the JLE Group of companies sees the relationship between NHP and JLE as a very strategic alliance. "We welcome the opportunity to work with NHP to deliver the service required by their customers," says Charles.

"At JLE Electrical we provide our customers with industrial and

commercial electrical maintenance and installation services as well as automation, inspection, compliance and instrumentation services," he adds.

"We have regional offices in Auckland, Hamilton, New Plymouth, Hawera, Napier, Nelson, Motueka, Blenheim, Christchurch and Dunedin. From these locations we carry out project and service work the length and breadth of New Zealand."

JLE enjoys strong regionally based networks throughout New Zealand, allowing them to offer NHP's and its own customers committed highly skilled and qualified labour with strong technical back up and support.

If you have a Santerno drive you require service or maintenance for, contact JLE:

Telephone +64 9 309 5220

Email michael.barron@jle.co.nz

or visit www.jle.co.nz



Latest news from Christchurch

Remote project success

BY NHP SALES ENGINEER, PETER PUMPA

NHP Christchurch's involvement in a project with Mainpower Contracting highlights the diverse and challenging locations you can find NHP solutions delivering practical, effective results.

Mainpower Contracting is a lines contracting company based in Rangiora in the South Island of New Zealand. As well as maintaining the local electricity distribution network throughout North Canterbury, Kaikoura, and Wigram, the business specialises in testing and developing alternative energy systems such as small hydro schemes, and wind and solar generation.

THE CHALLENGE

Mainpower's Technical Services Manager Peter Boocock was looking for a solution to control a water heating load at a research hut in the bush at North Canterbury, an area that doesn't get a lot of sun and little to no wind. The gas source which provided water heating was proving problematic and Mainpower sought an alternative source of energy. Department of Conservation staff spend up to 10 days at a time there, amongst steep and rugged bush and so they needed something – a solution that was ultra reliable.

THE BRIEF

Mainpower wanted 24 V DC coil contactors capable of switching a DC load to the water heater load, controlled by a mini PLC. When the water heating thermostat was on, the

micro-hydro generator would feed directly into the water heater as well as a battery bank used for general lighting in the hut. Once the water temperature reached a certain point, the generator load would switch to a load bank as the generator was too far away from the hut to have the load control altered. Also when maintenance was required on the system, Mainpower needed to be able to divert the whole load while keeping the generator running.

THE SOLUTION

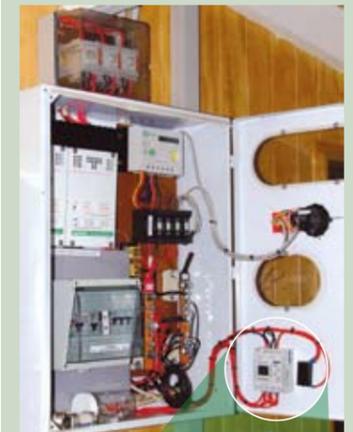
As no alternative electric power supply was available within the area, a small 24 V DC hydro turbine, driven by a constant flow of running water, was installed to supply power to the hut. To get a reliable source of water, the intake for the generator had to be located approximately one kilometre from the hut.

The solution NHP Christchurch offered was to use three Sprecher + Schuh 24 V DC contactors in conjunction with an AL210MRD Mitsubishi Alpha PLC. We gave them some basic training in programming the PLC and they developed a small program to control the operation.

The system has been operating successfully for over six months now and Mainpower tell us how impressed they've been with the total service and product solution offered by NHP. Their hot water and lighting hasn't missed a beat!

NHP

COVER STORY



NHP used S&S contactors along with a Mitsubishi Alpha mini PLC to control the problematic water heating load to the research station in the North Canterbury bush



Rugged South Island hill country presented an interesting challenge for NHP

It's official – NHP No.1 for Santerno

In just twelve months of marketing Elettronica Santerno drives to the Australasian market, NHP is proud to report it has exceeded the sales of 53 other Elettronica Santerno distributors worldwide.

NHP was awarded the prestigious title of 'No. 1 Distributor' of Santerno's Sinus Penta variable speed drive range of products at the Elettronica Santerno International Training Program in Imola, Italy, late last year. NHP representatives were proudly in attendance.

NHP and Elettronica Santerno have been involved in a range of small to large scale drive projects throughout Australasia. The wide power and voltage range (from 2.2 – 2012 kW or 380 – 690 V) of Sinus Penta variable speed drives suit almost any sized motor application. During NHP's first year of Santerno distribution, key projects won by the partnership include a New Zealand pumping

station with 900 kW 690 V drives; a 400 kW special slurry pump application and a 1MW front end drive for a coal unloader conveyor.

"All Sinus Penta drives feature a robust full metal enclosure to suit the physical demands of industrial environments, with the option of protection ratings of IP 20 or IP 54," explains NHP's Application Engineering Manager, George Janiszewski.

The Sinus Penta range is fully featured and all drives are covered by a three year warranty.

For more information, contact:
NHP Sales Representative, George Janiszewski
Telephone +64 9 276 1967,
Email gjaniszewski@nhp-nz.com
or visit www.nhp-nz.com/santerno



Sinus Penta Variable Speed Drives

NHP's network

What you want, where, when and how you want it

Success in today's competitive industrial world is elusive; consistent commercial success is a serious challenge. It requires the best-of-the-best: an optimal mix of world-class technologies, refined systems, and knowledgeable and skilled personnel.

NHP Electrical Engineering Products Pty Ltd – the leader in the Australasian industrial electrical sector – has earned a reputation for providing this optimal mix to the Australasian industry for close to four decades.

When NHP was established in 1968, founder, Nigel Peck, was determined to create a 100 per cent Australian-owned company focused on providing the best service and highest level of quality products. NHP has grown from its humble beginnings of 17 dedicated staff members to become Australasia's leading industrial electrical business with over 600 staff and hundreds of valued supply line partners and customers across every type of industry.

Two elements have formed the heart of NHP

- Bringing the world to Australasia: NHP provides the very best the world can offer that supports our Australasian industrial conditions.
- Services and solutions: NHP offers a great deal more than boxed production – services and solutions are essential elements in the unique NHP mix.

BRANCH OFFICE NETWORK

To meet our customers' exacting needs demands a unique network of resources, facilities and personnel. Our 15 branch offices are located in all states and territories across Australia and New Zealand. Each branch provides a 'mini-HQ' in profile, with extensive local stock warehousing, a technical support team, in-house training facilities, a fully equipped workshop for product development and customisation – everything that is required to support our customers' local and immediate requirements.

VICTORIA

Head Office – Richmond

Officially opened: 1985 Current staff: 193

The NHP national head office in the Melbourne suburb of Richmond has been home to the company for almost 30 years.

It is the central site for the company's:

- Extensive product training team and training facilities
- Technical support team
- Central showroom
- Product management teams
- 'Cubic' Centre of Excellence

National Distribution and Manufacturing Facility – Laverton

Officially opened: 1999 Current staff: 135

Located in Melbourne, NHP's National Distribution and Manufacturing Facility forms the heart of the enterprise, with an area of approximately 12,000 m², the site is home to the company's major stock holdings, and product assembly/customisation facilities.

The centre's impressive inventory-management technologies and state-of-the-art warehouse dispatch many hundreds of units per day across the region. The facility is located close to Melbourne's main airport and sea freight terminals.

Other facilities include:

- Technical workshops
- Product evaluation and testing facilities
- Engineering and estimating departments
- Engineering design and development

Manufacturing

Laverton's manufacturing workshop is a truly world class facility, spanning some 5000 m² of floor space, providing in excess of 10,000 labour hours per month across two shifts. Activities include the complete assembly of air circuit breakers from knock down kits, the design and manufacture of power distribution boards, power factor correction panels and specialised motor starters, as well as the assembly of standard starters, cam switches, joystick controllers and meters.

NHP's manufacturing workshops are also spread throughout Australasia, with each city branch consisting of facilities that can provide for the local market.

NEW ZEALAND

Auckland

Officially opened: 1998 Current staff: 20

Christchurch

Officially opened: 1998 Current staff: 5

QUEENSLAND

Brisbane

Officially opened: October 2006 Current staff: 62

NEW SOUTH WALES

Sydney

Officially opened: 1987 Current staff: 79

NHP extends its capabilities

In keeping with its focus on customer support, NHP has just opened a new distribution centre in Campbelltown, South West of Sydney.

With a focus on increasing its warehouse level stock capabilities, the new distribution centre will begin as a base for Eldon enclosures.

NHP continues to invest in the future with exciting new initiatives and grow its business where our customers require it most.

WESTERN AUSTRALIA

Perth

Officially opened: 1997 Current staff: 39

Did you know? NHP Perth currently has nine staff who has worked at that branch since day one.

SOUTH AUSTRALIA

Adelaide

Officially opened: 11 March 2003 Current staff: 33

NORTHERN TERRITORY

Darwin

Officially opened: 1996 Current staff: 5

TASMANIA

Hobart

Officially opened: 2001 Current staff: 5

REGIONAL OFFICES

Townsville

Officially opened: 1991 Current staff: 11

Toowoomba

Officially opened: June 1991 Current staff: 5

Rockhampton

Officially opened: September 2001 Current staff: 13

Cairns

Current staff: 5

Newcastle

Officially opened: 1996 Current staff: 19

Regional representative network

Complementing our branch offices, NHP's 16 regional representatives extend our knowledge and customer support to areas beyond the reach of our branch offices. Our fully trained and experienced regional technical staff carries stock of NHP's leading brands, and provides the vital customer support in the most remote locations.

Quality personnel

With a 600-plus team of sales support, warehousing, management and engineering/technical support people located in the industrial centres spread across Australasia's vast region, NHP provides its customers with an optimal mix of products and solutions backed by service. No matter how good a product may be, it is nothing without dedicated people to supply, service and support it.

Meet the team from Motor Control

NHP's Motor Control team is the best in the business. Servicing customers on both sides of the Tasman, the group has more than 100 years collective experience in the electrical industry. In his role as Business Manager, Motor Control, Harry Fletcher says that his team's job is to work on Australasian projects as a cohesive unit, with products that dovetail and support each other. In this story, we profile some of the Motor Control Product Managers and preview their latest product innovations.



Steve Amor is the Product Manager for the NHP/Austrol (Australian Made – NHP Exclusive), Sprecher + Schuh pushbutton and terminal ranges.

A dedicated long-serving NHP man, Steve's current portfolio includes more than 9500 line items.

His Sprecher + Schuh D7 22.5 mm control and signalling equipment range has been on the market since last year and is going strong.

"The reasons why are easy to see," Steve says. "D7 pushbutton products are highly visual – the new modern compact design and appearance fit in well with new panel designs. The ergonomic shape ensures that operator functionality matches the products' good looks."

Steve explains that the snap fitting components allow for fast and simple installation. But, he adds, by far the most unique feature is the "Autobreak" safety contact blocks that is exclusive to this range and developed specifically to suit the D7 emergency stop operators.

SOFT STARTERS – ON YOUR MARKS

Spiro Fkiasis is Motor Control's Soft Starter expert.

Looking after the NHP and Sprecher + Schuh ranges, Spiro is one of NHP's most experienced Product Managers.

The Series B Sprecher + Schuh PCS Soft Starter has just undergone an enhancement through the addition of a 6 wire motor connection feature.

"The advantages are very clear," explains Spiro. "The PCS will now be suitable for use with larger motors without any

commercial penalty to the customer. And, as it offers features and functions beyond that of its PDS sister product, it presents as a much more advanced alternative to star/delta starting for both new and retro-fit installations."

SANTERNO STARS

Geoff Thorp recently joined the Motor Control group as Product Manager, Variable Speed Drives and has three new products on the books – Elettronica Santerno's Sinus Penta full variable speed drive and the Micro Drives – Sinus Nano and Sinus Micro.

The Sinus Penta drives were launched in 2006. Geoff says that the range is "going great guns" because of their wide power and voltage range, the simple to use and stylish keypad, their many communication options, and reliability.

Following in the Penta's footsteps, the Sinus Nano and Sinus Micro are 'Micro drives' which offer a range of enhanced features, are excellent value for money, ultra compact and with a power range of between 0.4 kW and 7.5 kW. Extremely easy to use, the drives have full compatibility with the Remote Drive software used to program the Sinus Penta range of drives, making them an ideal companion.

SIMPLY THE BEST – SPRECHER + SCHUH

Bob Kostic is the Product Manager for Sprecher + Schuh motor control products and traction contactors (except for pushbuttons, soft starters and terminals), Ghisalba Contactors and Microelettrica DC products. Bob's core work, however, is with NHP's flagship Sprecher + Schuh product range.

"Sprecher + Schuh is a recognised market leader in motor control switchgear," says Bob. "NHP carries 6,000 of their products, including contactors, relays, safety contactors and safety relays, programmable timers, thermal motor protection overloads, rotary cam load switches and push button switches and terminals. They vary in complexity from simple electro mechanical contactors/ relays to sophisticated electronically controlled and fully networkable thermal overloads such as the CET 5."

Ghisalba specialises in unique high power four pole contactors/ devices up to 1,000 amps while Bob's other line, Microelettrica, manufacture unique high power DC traction style contactors used in heavy industry and mining. Both companies are based in Italy.

Bob explains that NHP is about to launch the Sprecher + Schuh CA 8 range of mini contactors and relays which will replace the 4, the new CA 8 has higher IP and operational ratings, more flexible accessories and a utilities suite to simplify installation.

For more information, contact:
Business Development Manager, Motor Control, Phil Fraser
Telephone 0275 647 032 or visit www.nhp-nz.com

sprecher+schuh



D7 pushbuttons



PCS soft starters with other ACS components

ELETRONICA SANTERNO



Sinus Nano and Sinus Micro Variable Speed Drives

TemBreak 2 – Out in front and going strong

Since its launch to the market in October last year, NHP's new Terasaki TemBreak 2 range of moulded-case circuit breakers (MCCBs) is already proving a hit with customers.

NHP Application Engineering Manager, George Janiszewski, attributes interest in the TemBreak 2 series to the model's compact size, new visual safety features, ease of installation, simplicity of field-installable accessories, and flexible overload and short-circuit protection.

"The whole range is built around the switchboard builder or customer being able to customise or accessorise simply and quickly," he says. "In fact, much of what a customer needs to do could be done with a screwdriver."

TemBreak 2 offers designers of industrial, commercial, marine/shipping or residential projects simplified design and powerful functionality.

The range of field-installable accessories such as terminal covers, motor operators and variable-depth operating handles can be installed using simple locking pegs, aiding rapid switchboard construction or value-add functionality.

And as far as safety is concerned, TemBreak 2 offers superior coloured toggle indication which clearly displays the 'on/off/tripped' status of the breaker. The toggle itself is 'direct driven' as a result of a direct mechanical link between the main contacts and the toggle. Coupled with the IP 65 rating of the TemBreak 2 handle, on-site personnel and the switchboard equipment will realise a whole new level of protection.

For more information, contact:
NHP Application Engineering Manager, George Janiszewski
Telephone +64 9 276 1967
Email gjaniszewski@nhp-nz.com
or visit www.nhp.com.au/tembreak2

Trademark: TemBreak 2® is a registered trademark of Terasaki Electric Co. Ltd.



Accommodating all of the necessary fault ratings required for any type or size of project, the TemBreak 2 provides enormous benefits to users, from switchboard manufacture stage, all the way through to installation and operation

Whilst the company has grown remarkably, the core values of professionalism, commitment to quality and passion for the customer, values initially instilled in us by Mr. Peck, still remain. I have personally grown with the company and apply much of what I have learnt from the NHP culture to my life outside work. - Gary Piper, Technical Sales Rep, 13 years at NHP Newcastle



Head Office - Richmond



National Distribution and Manufacturing Facility - Laverton



NZ Head Office - Auckland



Christchurch

Good vibes from Wago® vibration monitoring

Vibration monitoring and analysis is a well established and commonly used method of predictive maintenance.

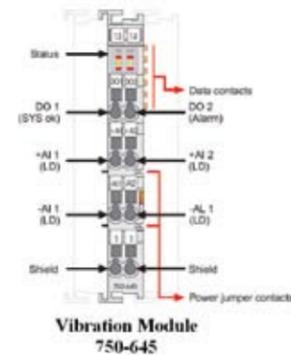
Motors, pumps, gearboxes, fans and many other types of rotating components of mechanical systems can fail unexpectedly and result in major production losses and expensive repairs. Many of these failures can be predicted by measuring the normal vibration levels of rotating components and watching for increases which can indicate problems.

When increased levels of vibration are detected, further investigation of the equipment can be conducted to determine if maintenance needs to be performed immediately, or scheduled for a convenient time to prevent a break down of the equipment from taking place. Vibration monitoring and analysis equipment traditionally has been expensive and often separate to, or awkwardly integrated into, factory control and maintenance systems.



WAGO has developed a vibration monitoring system that overcomes many of the problems with existing vibration systems. The WAGO system consists of a vibration sensor that constantly measures both the mean value of the vibration severity and the 'shock pulse' value. Two such sensors can be monitored by the new WAGO vibration module 750-645.

The new module is fully compatible with all of the other modules in the WAGO remote I/O 750/753 series and with all WAGO standard couplers and WAGO controllers. This allows the vibration monitoring information to be transmitted back to a central control system along any of the popular fieldbus types.



Limits can be set for the measured values of vibration and if these limits are exceeded then alarms can be raised and further investigation can be conducted. If higher limits are exceeded the module can trigger a slow down, or a shut down of the equipment to protect it from damage.

The module employs coloured LEDs to locally display the status of the module and to show if the alarm or shut down limits have been exceeded. The new WAGO Vibration system thus provides another reason to choose WAGO I/O for all of your future remote I/O needs.



CEP 7-E – now with smart clip-on modules

The Sprecher + Schuh CEP 7 range has undergone some radical upgrades in the past 12 months. The new CEP 7-E (series B) has been widely accepted by industry and is now supported by the introduction of a number of smart side clip-on modules.

The beauty of the new CEP 7-E is that its operational range has been extended up to 800 amps. A semi-intelligent overload with the addition of a small side mount module extends its capability in terms of clever motor protection. Such modules as the EDN (DeviceNet™), EJM (Jam/Stall), ERR and even the soon to be released EGF (Ground Fault) turn the CEP 7-E into a high end product.



Sprecher + Schuh's CA 6 and CA 7 - winners in their class

Sprecher + Schuh's CA 6 and CA 7 contactors are unique in their class – they offer outstanding design features, small footprint, high power to size ratio, wide current range, low power consumption intelligent electronic coils with a profusion of clever accessories.

But, there's one feature which stands out head and shoulders above the rest. That's the uncompromising quality and reliability that is built into every CA 6 and CA 7 contactor. Both ranges are manufactured with Swiss precision from environmentally friendly composite materials.

In reliability the CA 6 and CA 7 are stand out performers. On average both contactors have a life expectancy in excess of 10 million operations. Day in day out, week in week out, and year in year out, these powerful contactors will operate flawlessly, regardless of operational conditions.



Dupline® – Get on board the Simple Fieldbus

Dupline is a fieldbus that offers unique solutions for a wide range of applications in building automation, water distribution, energy management and many other areas.

The system is capable of transmitting 128 signals for up to 10 km, via an ordinary 2-wire cable and even much further with repeaters and modems. These 128 signals can be all analogue, or all digital, or any combination of both.

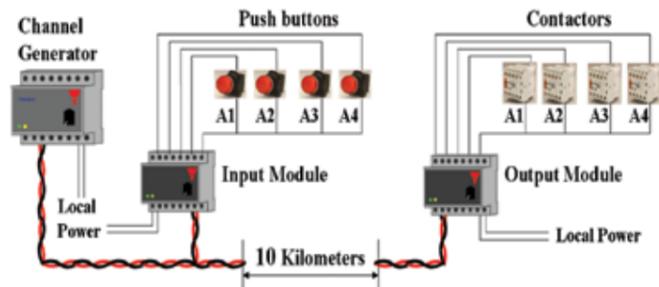
The modular design of the Dupline system and simple operating principle enables even novices to implement its use in new or existing applications.

Solutions are engineered by combining products from the wide range of Dupline

modules, including digital and analogue I/O modules, PLC and PC interfaces, HMIs and Modems. All modules in an installation connect to the same 2-wire cable which is used to exchange data between modules and between a central controller and the modules.

Dupline is typically used as a remote I/O system, creating a link between field devices, such as sensors, contactors, valves, or pushbuttons and a central Monitoring Controller, which may be a PLC, PC or the Dupline Controller.

Dupline can be used as a simple wire replacement system where signals are transmitted peer-to-peer without involving a controller or any intelligent unit. The



Dupline signals can be transmitted not only on copper wire, but also on fibre optic cable, via radio modem, on leased telephone lines or via GSM Modem.

Dupline has proven its performance in more than 150,000 installations worldwide since

1986, and even though the latest technology is used today, the new Dupline modules are still compatible with those installed 21 years ago.



Visiting our partner, Spohn & Burkhardt

BY NHP PRODUCT MANAGER, JON RODAUGHAN

In November 2006 I had the opportunity to visit one of NHP's leading supply line partners, Spohn & Burkhardt, at their head office and manufacturing facility in Blaubeuren, Germany.

Spohn & Burkhardt manufactures a diverse range of controllers, control stations, resistors and starters as well as a broad spectrum of controls for all types of transport machinery, construction and shipping cranes.

The company was founded in 1920 by Karl Spohn and David Burkhardt and remains in family ownership. It employs over 200 people, split between head office in Blaubeuren and a manufacturing facility in Schelklingen, some 10 kilometres away.

Blaubeuren is a small picturesque town in the Danube Valley, half way between Munich and Stuttgart. It was interesting to note that an internationally recognised and ISO 9001 certified company with such a hi-tech focus could operate so happily among residential buildings, many of which date back more than 400 years.

The primary purpose of this visit was to further build on our strong relationship with our partner. While I have spoken to the guys at Spohn & Burkhardt quite a lot over the past 12 months, this visit allowed me to view the team's manufacturing capabilities and compare these to Australian customers specific requirements, as well as research the new fully motorised chair – model FSMMD.



THE BEST SEAT IN THE HOUSE

For many years, NHP has been building our reputation as a quality supplier of chairs and consoles for mining, marine and manufacturing

applications. Our past successes include dozens of SV1C operator chairs for coal excavation. But I was particularly interested in seeing the work they put into their FSMMD range of motorised operator chairs.

International company Liebherr Cranes, specialists in overhead construction cranes, is a major customer for Spohn & Burkhardt. To give you an idea on the sales potential, Spohn & Burkhardt have eight staff continually assembling and wiring chairs to supply Liebherr with over 200 fully motorised chairs per year.

At Spohn & Burkhardt I saw first-hand the facilities which enable them to offer customised solutions by a very experienced team of electrical CAD designers. These facilities allow special fittings like stainless steel consoles or non-standard engineered designs to be constructed.

Prior to my visit to Spohn & Burkhardt, we were working very hard to secure our first order for the fully motorised FSMMD chair for the multimillion dollar drag line upgrade at the coal mine in Central Queensland's Bowen Basin. This ergonomically designed chair has all the 'bells and whistles' you can imagine, such as full electrical movement for all

chair and console inclinations and ten position memory recall (PLC based), so operators can punch in their code and recall their preset positions.

I'm pleased to say that we won this order, reflecting the strong relationship between

Spohn & Burkhardt and NHP.

For more information, contact:
NHP Product Manager, Jon Rodaughan
Telephone +61 3 9429 2999
Email jrodaughan@nhp.com.au

AS-i Safety at Work – saves costs, wiring and lives

The Schmersal AS-i (AS-interface) Safety at Work package is providing hundreds of Australian workplaces the assurance of the highest level of Control Category 4 safety.

The Schmersal ASM Type Safety Monitor is the most essential component that connects a variety of safety products to the respected Safety Bus 'AS-i Safety at Work' system.

The safety components of a machine or plant – for example, guard doors, emergency-stop switches, safety light barriers, safety solenoid interlocks – can be connected into the conventional AS-i Network via this monitor.

Users can now take advantage of a standard AS-i conventional network, and upgrade it into safety-relevant applications to the highest category, Safety CAT - 4.

Cable connections are made with the familiar AS-i yellow two core ribbon cable – saving installation time and costs and reducing the space required in the panel.

The Schmersal ASM Safety Monitor supervises the information from all safety components transmitted via the AS-i network and switches the plant to "safe" condition if a safety circuit is actuated or if a safety component is defective.

For this purpose, the ASM safety monitor has one or two enabling circuits which are designed to be redundant. So, downtime is minimised via the complete diagnosis facilities offered by the system.

Individual safety functions are programmed by means of 'drag and drop' software. The parameters are then transmitted to the Safety Monitor and protected by a password.

REACTION TIME IS 35 MS

The transmission mechanism for safety-relevant applications is based on the unchanged AS-i Standard Protocol. In operation between the Safety Monitor and the Safety Components, a defined communication is sent for each master call-in. The monitor evaluates this information and opens the enabling circuits in case of a deviation from the required condition. The reaction time for secure switch-off is maximum 35 ms.

AS-i Safety at Work operates so reliably that it can be used in applications up to Control Category 4 to EN9541. The TÜV and BIA organisations have checked the concept with a positive result.

"We want people feeling safe and secure at their workplace," explains NHP Sales Engineer, Chris Brandon. "Employees deserve to have utmost confidence in AS-i Safety at Work system to protect themselves from dangerous situations. The Schmersal Safety AS-i has a very important job to play in workplace safety."

For more information, contact:
NHP Sales Engineer, Chris Brandon
Telephone +64 3 377 4407
Email cbrandon@nhp-nz.com

Spohn + Burkhardt

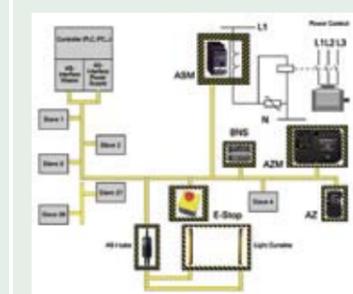


S&B's chairs really are the best in the business



NHP took the S&B chair on tour – this operator is six and a half feet foot tall – the most comfortable seat he'd ever had

SCHMERSAL



AS-i Safety at Work

INNOVATIONS



The entire range of .steute emergency stop pull-wire switches are made in accordance with IEC 947-5/5 EN418 60947-5-1/DIN/VDE 0660-T200.

.steute TQZS 80 emergency pull-wire switch

The .steute TQZS 80 emergency pull-wire switch is a highly developed and quality manufactured product that makes an impression.

In industrial safety applications, a quality emergency pull-wire switching system is an invaluable tool that can protect both people and plant from harm. In sections of production where there is a pre-defined distance with a present danger, more traditional products like emergency stop buttons may not be immediately available. If an operator were to become caught in a conveyer line, all they would have to do is pull on the closely located pull-wire rope to isolate the machine.

The TQZS 80 emergency pull-wire switch is made up of hardy aluminium die cast enamel finished enclosure with a thermoplastic ultramid cover. The cover incorporates a flag indicator, reset button and an emergency stop button.

Other essential items which accompany the pull-wire switch, are pull-wire supports, steel core red PVC sheathed pull-wire, and a tensioning spring. These products are ordered separately.

SAFETY FEATURES PLUS

The TQZS 80 emergency pull-wire switch, in addition to standard features possessed by a pull-wire switch, has four advanced features.

- The flag indicator reset button allows for an ergonomically designed reset button to be initiated, while at the same time indicating the state of the emergency pull-wire switch (whether tripped/set). This indication is visible at a distance.

- The emergency stop button allows the switch mechanism to be tripped when an operator is in close proximity to the unit. This means having an emergency stop button on the pull-wire unit, gives the operator a second switching option, in case they cannot pull the wire.
- The TQZS 80 emergency pull-wire switch not only actuates when the trip-wire is pulled or emergency stop button is pressed, but the switch also actuates if the pull wires tension is relieved (wire breakage detection). This is a safety feature that leaves associated areas of production isolated until such time, as faults with the pull-wire are rectified.
- The TQZS 80 emergency pull-wire switch also has a four contact arrangement instead of the industry standard of two. Only two contacts are needed for any dedicated safety circuit leaving two contacts spare for alarm activation or signalling purposes.

For more information, contact:
NHP Sales Engineer, Chris Brandon
Telephone +64 3 377 4407
Email cbrandon@nhp-nz.com

NHP

NHP Electrical Engineering
Products Pty Ltd

New Zealand
www.nhp-nz.com

Auckland
Ph: +64 9 276 1967

Christchurch
Ph: +64 3 377 4407

Melbourne
Ph: +61 3 9429 2999

Sydney
Ph: +61 2 9748 3444

Brisbane
Ph: +61 7 3909 4999

Adelaide
Ph: +61 8 8297 9055

Perth
Ph: +61 8 9277 1777

Newcastle
Ph: +61 2 4960 2220

Townsville
Ph: +61 7 4779 0700

Rockhampton
Ph: +61 7 4927 2277

Toowoomba
Ph: +61 7 4634 4799

Cairns
Ph: +61 7 4035 6888

Darwin
Ph: +61 8 8947 2666

Hobart
Ph: +61 3 6228 9575

.steute



In industrial safety applications, a quality emergency pull-wire switching system is an invaluable tool that can protect both people and plant from harm.