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Life Is On



by Schneider Electric

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Hearty Winter Warmers



Simply spend \$250 + GST on ARMA products on one invoice & you will **RECEIVE** a **Barker's Winter Essentials Pack**. While Stocks last

The promotion runs from 1 July 2023 to 31 August 2023 or while stocks last.
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 **MARLEY**
by aliaxis

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NEW ZEALAND'S ELECTRICAL SUPPLY



Welcome to our Winter issue of MarketPlace for 2023, the promotional and business publication from the members of the Powerbase electrical wholesale group.

We hope the technical features and advertorials in this issue spark ideas that will help grow your business or make it more effective. For more details on these product ranges contact your local Powerbase branch.

Let us know if you have an industry topic or product install case study that we could feature in MarketPlace.

Email your submission to national.office@marketplacemagazine.co.nz

Also, if you happen to come across an electrical botch-up in your daily work, photograph it, and send it in. It could be featured in our Epic Fail section and you could win a \$50 Subway voucher!

Powerbase is the largest group of independent electrical wholesalers, all locally owned and operated. The people you deal with are the ones that own the business – so we're committed to keeping you happy!

Kevin Lynn
Group Commercial Manager
Powerbase Limited



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Ultra Performance Flexible Rubber Double Sheath Cable 0.6/1kV 90°C



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Ultra Performance Flexible Rubber VSD Marine / Power Cable 0.6/1kV 90°C - Tinned



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Ultra Performance Flexible Rubber Single Sheath Cable 0.6/1kV 90°C



The promotion runs from July to August 2023. *To qualify for a FREE jacket, spend over \$250 + GST on one invoice on Firstflex Chemtuff series of cables during the promotion period, while stocks last. Open to trade account customers of participating Powerbase Members. Terms and conditions available at participating branches.

ABB TERRA AC WALLBOX

Brought to you by the global experts in smart mobility, smart buildings and smart homes, the Terra AC wallbox is built on ABB's 130-year heritage of accessible technology leadership for safe, smart and sustainable electrification and informed by our comprehensive expertise in e-mobility.

With a decade of experience in innovating, installing and maintaining e-mobility infrastructure, including several nationwide charger networks, we're trusted by some of the world's biggest brands to provide smarter mobility solutions from highway to home. No other wallbox provider has a portfolio as strong as ABB, spanning the AC and DC charger market offering tailored, intelligent and connected charging solutions for any location type and business.

These attributes combined make ABB the home of charging, and the wallbox an essential component of connected living. The Terra AC wallbox is the superior EV home charger, delivering high-value quality, futureproof flexibility, and advanced safety and protection.

ABB Terra AC Wallbox Benefits:

High-value quality

- The best value AC charger on the market, providing the exceptional quality expected of the world leader in EV charging.
- Enabled for remote software updates to ensure optimal performance while minimising the need for onsite intervention.
- Broad range of connectivity options including WiFi, Bluetooth and Ethernet for easy control and integration with existing infrastructure.

Futureproof flexibility

- Smart functionality means the wallbox can adapt its power usage and provide optimal charging, today and into the future.
- Set up for energy meter integration to provide dynamic load management, reducing energy costs and preventing nuisance tripping of distribution protective devices.



- Dedicated ChargerSync™ app provides easy authentication and control of the AC charger, along with an insight into charging status for users.

Safety and protection

- Evaluated and tested to the highest standards by independent, third-party safety certification organisations.
- Current limiting protection allows maximum charging power without nuisance tripping, aligned with the design of a given building's electrical distribution system.
- Integrated protections including DC ground fault and over voltage protect both user and car. ☑


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TIM NEWMAN - HOPPINESS.CO.NZ

Not since the IPA explosion of the late aughts has a style of beer experienced such a meteoric rise to dominance.

In the space of just a few years, hazy went from just the latest adopted American beer trend to the most popular style of craft beer around.

This unprecedented popularity all but dictated that brewers needed to get aboard the hazy train, regardless of what they may think of the style. These days you can pick a craft brewery out of a hat and just about guarantee they'll do one (if not several).

Only this year has the rise of hazy beer shown signs of levelling off, gaining only a handful of additional entries in the recent New World Beer and Cider Awards. After the Brewers Guild Awards later in the year we'll know for sure, but even if the plateau has finally been reached, hazy is still sitting on an absolutely titanic slice of the craft market.

However, as the years of hazy saturation have worn on, a growing number of drinkers are finding themselves well and truly over the style. Over the bar, the once ubiquitous refrain of "Got any hazys?" is gradually shifting to "Got anything else?"

Whether you're over it or still all-in, hazy beer isn't going anywhere any time soon, so you might as well be getting the good stuff.

Hazy, just like any other style, has good and bad examples. Generally speaking, the overall quality has increased significantly just in the last year or two, as more brewers figure out the eccentricities of these challenging beers. But there's still plenty out there that seems like it's been brewed as an afterthought and chucked out onto the market just to capitalise on the popularity of the style. Lazy Hazy I call it. Dull, murky tasting beer with plenty of haze, but no life or character to the flavour.

So how to aim for a good one? First know what you're getting. The principle split in the styles of hazy beer is whether or not they've had lactose (unfermentable milk sugar) added. Lactose introduces a sweetness and weight to the body of a beer, and while these milkshake style hazys certainly have their following, they're absolutely not for me. So, if you're not after a sweet, heavy beer either then check if lactose has been added. It should be declared on the packaging of most examples.

Lactose aside, good hazy beer should (despite its appearance) have a brightness to its aroma and flavour. A sharp acidity that holds those fruit flavours up and keeps them tasting fresh and crisp.

Without that sharpness and lift, all that fruitiness can end up tasting muted, over-ripe and squishy.

Another trap hazys often fall into is lack of bitterness. While hazy is a low bitterness beer, it shouldn't be a no bitterness beer, and without that bit of grip to conclude the finish, the drinkability can suffer.

As long as those two boxes are ticked, you've likely got a perfectly sound beer. Whether it's also an interesting beer depends on a myriad of other factors, including personal taste, but it's a good foundation to keep in mind as you're exploring.

As discussed, there is a lot of hazy beer out there. But I have a few highly available go-to's that are easy recommendations. Mac's Apparition is a remarkably good budget option in a six pack, as is Panhead Sandman for a craftier but still affordable pick. If you're aiming closer to the top shelf, Behemoth Me Time Mosaic and Garage Project's single batch Fresh IPA are some of the very best I've tasted. ■



PDL PRO SERIES

Raising the bar in commercial wiring devices

PDL Pro Series is the first range of hard-wearing switches and sockets designed to meet the needs of commercial buildings.

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After extensive market research and listening to customer feedback, we have designed a range of switches and sockets for commercial buildings to answer your needs. Pro Series offers circuit identification with large integrated windows. The skin is secured in place protecting your investment. Planning, commissioning and installing of the new Pro Series is quick and easy.

Attractive design

The range is aesthetically appealing with fresh, clean lines and beveled edges to deflect impacts. Available in white and

black, the switches and sockets will blend into any commercial environment. The clean and seamless design makes for an elegant and timeless appearance and avoids attracting dirt. Pro Series is simple, functional design that's made to go the distance.

Extensive functions

The new Pro Series includes a full range of products. Switches offer standard modules, electronic modules such as sensors, timers and C-Bus. Sockets are available in several variants, and in horizontal and vertical orientation. There is also a wide choice of USB options available.



pdl.co.nz



Secure clip-on skin



Impact deflection



Seamless design



IK08 impact resistant



Extensive list of functions

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ICONIC VS PRO SERIES

Key Features & Benefits



| Features | Iconic | Pro Series |
|---------------------------------------|--|---|
| Market Focus | Residential | Commercial |
| Key Customer Segments | New Homes and Renovation, Apartments, MDU/HDU | Office Buildings, Shopping Centres, Retail stores, Schools, Logistics & Warehousing |
| Pre-mounted screws | ✓ | ✓ |
| Secure Skin | | ✓ |
| Captive Terminal Screws | ✓ | ✓ |
| In line Terminal (Sockets) | ✓ | ✓ |
| Screw Covers | ✓ | ✓ |
| Sockets with Shutters | ✓ | ✓ |
| Matte Finish | ✓ | |
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| Translucent Edge | ✓ | |
| Locking Bar | ✓ | ✓ |
| 300 Series mech compatible | ✓ | ✓ |
| Hybrid Screws (SQ, PH & Slot) | ✓ | ✓ |
| Wiser compatible | ✓ | ✓ |
| Upgrade Styl & Essence Skins | ✓ | |
| C-Bus compatible | ✓ | ✓ |
| IK08 (Socket Outlets) | | ✓ |
| Circuit Identification Windows | | ✓ |
| Traffolyte™ or Dymo™ label compatible | | ✓ |
| Pictograms | ✓ | ✓ |
| Brochures | PDL Iconic Range Overview | Pro Series Brochure |
| Benefits | One platform with 10 cover options Wiser compatible Faster install Easy upgrade | Permanent reliable circuit ID Secure skin non-removal by hand Robust design Easy and fast to install |



FERRARI BREAD VAN:



The Story of a One-Off Ferrari Icon

When most think of a vehicle with the name "Bread Van" naturally the image of, well, a van filled with bread, pastries, cakes and other goodies from

a local bakery spring to mind. Mention Bread Van to a Ferrari fan and they will think of only one vehicle. A 1962 Ferrari 250 GT SWB, chassis number 2819GT.

With its shark nose, flat roofline and that squared off rear, this one-off Ferrari 250 GT Short Wheelbase was given the nickname "Bread Van" by the European Press. It saw action at Le Mans and Brands Hatch as part of the 1962 Sports Car World Championship and is up there today with its 250 GTO counterpart as one of the most valuable Ferraris of all time.

The Bread Van's story can be traced back to the dawn of the 1960s and the famous walkout of numerous Ferrari employees. What became known as the "palace revolt" many of Enzo Ferrari's top engineers and designers walked out after being dissatisfied with Il Commendatore's sometimes brutal management style and continued interference in Scuderia Ferrari from Enzo's wife Laura Garelo.

As a result, team manager Romolo Tavoni, engineer Carlo Chiti and designer of what would be the all-conquering 250 GTO, Giotto Bizzarrini, all left Ferrari and joined Count Giovanni Volpe's Scuderia

WAIMAK CLASSICS FOR SALE



1966 MG MIDGET



1967 MORRIS MINI COOPER 'S'



1972 HONDA CD175

Serenissima privateer racing team. The story goes that when old Enzo got wind of this, the team's order for a new 250 GTO was promptly cancelled. As a result, the team had to look elsewhere for a competitive car.

Fortunately, they were able to get hold of a development 250 GT SWB which Bizzarrini set to work converting to GTO specification. The 3.0L V12 was set lower to improve the centre of gravity and they threw in dry sump lubrication. The plan was to take chassis number 2819GT to Le Mans in 1962, so the car would have to be fairly aerodynamic to achieve those high speeds down the old Mulsanne Straight. Piero Drogo penned the lines and 2819GT was ready to contest the Le Mans.

Sadly, four hours into the race, the Bread Van retired allowing the factory 250 GTs to emerge victorious in their class. However, the one-off Ferrari achieved a class win at Brands Hatch the same year, but that was the extent of its motorsport victories as the car was withdrawn and used for regular road use. Bizzarrini went on to design the first Lamborghini V12 and Carlo Chiti would become head of Alfa Romeo's racing department.

As for the Bread Van, it started a new life competing in historic racing events throughout the later half of the 20th century. In 2010, the car was refurbished and given a certificate of authenticity by Ferrari Classiche. It has been a familiar sight at events like the Goodwood Revival and Le Mans Classic in recent years.

Sadly the Bread Van was involved in crash while negotiating a chicane on the Mulsanne Straight while contesting the 2022 Le Mans Classic. Driver, 31-year-old Lukas Halusa emerged unscathed but the Bread Van sustained



heavy impact damage.

With a repair bill likely to be in the millions, this estimated \$30 million-dollar

one-off Ferrari will likely be out of action for some time. Let's hope we get to see this icon turning a wheel in anger soon. 🚩



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Terms And Conditions

Promotion valid for sales during July & August 2023 only. Every \$200 spend on Hot Devil, Reload & Hamer Tools over the promotional period, equals one entry into the draw. Available to all Powerbase members. Final Draw to be completed by Powerbase. The Boomboxes will be distributed at the end of the promotion.



FRY BREAD (PARAOA PARAI)

One of my cherished memories growing up was time spent with my nana (R.I.P.) and the yummy food that she would prepare for us grandkids, in particular I was very fond of her fry breads, with lashings of butter, home-made Black Doris plum jam and a cup of hot Milo - simply put "soul food!"

In this article I am going to share this family favourite and whilst not directly barbecue related, fry breads are a great side or as an alternative to the traditional burger bun and are a real crowd pleaser no matter how served.

LET'S GET STARTED...

Time: 1 hour

Makes 8

INGREDIENTS:

- 1 Tbsp Standard flour
- 1 Tbsp White sugar
- 1 Tbsp Active yeast

- 1 Cup Milk
- 1 Cup Hot water
- 4 Cups Standard flour
- Canola oil for frying

METHOD:

1. Add the first measure of flour and sugar to a bowl, add milk and warm water. Mix together until combined. Add active yeast and set aside for 10 minutes. The yeast mixture will bubble and when fully activated resemble a soft sponge in appearance.

2. Add the second measure of flour to another large bowl and slowly add the yeast mixture. Fold together until combined and gently kneed till smooth - you may need to add a little extra flour to ensure the dough is not "wet".
3. Cover and set aside in a warm part of the kitchen for 45mins. The dough will double in size.
4. Heat the frying oil to 175c. (I use a large electric frying pan for this with approximately 4cms/4lts of Canola oil)
5. Once the dough has doubled, turn out onto a lightly floured surface and roll to a thickness of approximately 2cms. With a long knife cut in to desired portions - 6x6cm square will yield 8 pieces.
6. Set aside for 15mins to proof the dough further.
7. When the oil has reached 175c, gently lower the dough into the oil and cook until both sides are golden brown (5 or so minutes).
8. Remove breads, place onto a cake rack and rest for 5 minutes. 🍴



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WORKSAFE

Peter Morfee is the principal technical advisor for Energy Safety. His extensive experience in electrical regulation has overseen major legislative changes as New Zealand moved from a prescriptive to a risk based regulatory system.

These changes were necessary to allow New Zealand to join the expanding global marketplace and to provide regulatory mechanisms to safely utilise new and emergent technologies.

Mr Morfee's views on where electricity regulatory practices are heading and how emerging risks may be addressed paint a picture for the future:

Proficient practitioner skills will be a premium as new technologies are phased in offsetting the use of our more established liquid, gas and solid fuel energy sources.

While it might not become the reality (we're still waiting for the flying cars which were so prevalent in science fiction media decades ago), imagine with me this possible future:

You drive your electric vehicle (EV) to the supermarket to buy groceries for the week. One of the specials includes reduced-price electricity you can take back home and use to cook your food.

While we tend to think of the EV as a mode of transportation, we should also consider it as a mobile battery storage device that is capable of supplying electricity. It could be

possible to charge the batteries at optimal times in different locations then transport and supply electricity to a location where it is best utilised.

The supermarket car park you drove to in this future is under an overhead cover formed by arrays of photovoltaic (PV) panels. These panels generate and supply electricity for the building and charge the customers EV batteries while they are shopping.

When you return home, you simply "plug in" the EV flexible cord to your house power inlet. The stored energy (from your "home battery on wheels") is reversed and supplies electricity to the main switchboard which is then used to provide energy for cooking, lighting and heating the household.

Some of these elements may not even be that far off with reported trials of this emerging technology which has the potential to provide stored energy resilience to New Zealand's power network and assist to buffer peak demand.

The weekend promises to be busy with a family BBQ. Your future BBQ might use a hydrogen flame. This hydrogen is produced using excess electricity generated from

the small wind generator on the roof. The hydrogen can be stored, used to heat the house during winter or converted back to electricity using a fuel cell.

Some of the things we're thinking about are - if we take next generation motor vehicles, we know these will require far less maintenance and have autonomous safety features making them safer.

Future vehicles utilising hydrogen and battery powered electrical energy will have effective pollution reduced to zero.

EV also has the advantage that it can be used to store, supply, and move electricity around to where it can be optimally utilised.

Applying regulations and standards

If you are installing or working on some piece of fancy, unfamiliar electrical equipment, for which no standard is cited, ensure you apply the (Safety Fundamental Principles) contained in Part 1 of the Australian / New Zealand Wiring Rules and always look for guidance and recently issued Standards for advice.

Using the provisions of an updated Standard where an earlier version of that standard is currently cited in the Electrical (Safety) Regulations 2010 may be considered as reasonably practicable steps to improve or enhance the safety of any completed work provided that compliance with the cited Standard is still achieved. Reference to the updated Standard should be included on any certification together with the cited Standard. ■

Energy Safety has published guidance on EV charging stations which is available on the WorkSafe Energy Safety website.

Scan me to read more





NSF Approved Clean Room Highbay

100W, 150W, 200W, 5,000K

Independent Heat Dissipation

Sensor Compatible

Corrosion Resistant

IP69K IK10

110° Beam

140lm/W

HUGO
LIGHTING

INDUSTRY UPDATES

The latest new products and innovations.
For more information contact your local Powerbase Branch

HARMONY UNIVERSAL WHITE LED BLOCK, ONE LED BLOCK FOR ALL COLOURS!

Simplified design

A unique and universal white LED block replaces 6 individually-coloured blocks of the Harmony XB4/XB5 offering simplifying product placement during design.



Lower inventory

New white universal LED block design allows partners to simplify their LED block inventory by reducing from 6 references to 1 – up to 79% reduction in LED Block and body references.

Enhanced colour saturation

Improved colour intensity and reduction of spot effects creates better functional visualization when the product is on or off.

Feature

- New design moves from 6 coloured LED blocks to one universal white LED block with 2 side LEDs instead of 1.
- New saturated coloured plastic used on all heads except white and yellow.



Life Is On

Schneider
Electric

CALDO NDM WI-FI PANEL HEATERS

Introducing the Caldo NDM panel heaters. With a sleek design and a tough white powder coating, this heater is not only stylish but durable. The NDM series features 2 models, each equipped with Wi-Fi connectivity, allowing you to control the heater from your smart device using the Smart Life app available on the App Store and Google Play. The NDM series is perfect for student accommodations, rental properties, and your home with its wall-mountable and portable design, including lockable castors and a bracket for wall mounting.

The Caldo NDM is not only convenient, but it is also safe. With tip-over protection, child safety lock, and open window detection, you can have peace of mind knowing your family is protected. The NDM series is also allergy and asthma friendly, as the heaters use natural convection and are noiselessly run.

With a safety thermostat and a maximum heating power of 2400W, the Caldo NDM is the perfect solution for your heating needs. With a 5-year warranty and an affordable price tag the NDM series is a great investment for your home.

**OLIMPIA
SPLENDID**
HOME OF COMFORT



POWERBASE NOTEBOOK

DYSON 360 ROBO VAC

Dyson is introducing the Dyson 360 Vis Nav robot vacuum, apparently it is smaller, smarter, and will be better at edges.



THE LEGEND OF ZELDA

An epic adventure across the land and skies of Hyrule awaits in The Legend of Zelda™: Tears of the Kingdom released on Nintendo Switch in May 2023.

OUT
NOW





INNOVATION SINCE 1915

12VMAX LONG SLEEVE HEATED BASE LAYER

DCX200BS Small DCX200BM Medium DCX200BL Large
DCX200BXL XL DCX200B2XL 2XL DCX200B3XL 3XL



CXT
LXT

\$235.00

• 12V CXT Battery Adaptor (TD00000110) included, 18V LXT adapter (TD00000111) & Cable (TD00000112) sold separately.

\$230.00



XGT

AS001GZ

40Vmax XGT Brushless Dust Blower

- Maximum air velocity up to 200m/s wind speeds
- 4 stage electronic speed control to suit a variety of applications
- Continuous runtime up to 50mins with optional BL4025

\$239.00



LXT

TD022DSE

7.2V LXT Impact Stick Driver Kit

- Lightweight stick impact driver with high operational efficiency
- Compact design with soft grip stick handle
- Variable speed via trigger control
- Utilises standard 1/4" hex screwdriver bits

\$59.90



E-15241

Ultimate Electricians Pouch

- Designed to meet requirements of the professional electrician
- 12 elastic loops at the front for easy-access
- 8 holders made of anti-slip webbing

Promo period 1st July - 31st August 2023 | For T&C's: www.makita.co.nz/promotions/

Glight

GFL900

CAMPBELL PARK



FEATURES

- Aluminium alloy housing
- Polycarbonate optical lens
- High efficiency LED chips
- 1-10V Dimmable
- Built-in 10KV surge protection device
- LED lifespan:
49000Hrs@L90,
110000Hrs@L80,
180000Hrs@L70, Ta 25°C
- Ta:-30°C to + 50°C

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FEATURED



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Lighting Council 2020

\$484.00

GFL900/180W CW

\$1064.00

GFL900/450W CW

GFL900/600W CW

\$1254.00

MOUNTING OPTIONS



Post top mounting

Side entry mounting

Wall mounting

Straight arm mounting

A Brighter Future Together

OLIMPIA SPLENDID

For more than 60 years, Olimpia Splendid has been designing and manufacturing air conditioners, heaters, air purifiers and hydronic systems in Italy. These unique and innovative products have underpinned the company's international expansion. Today you will find Olimpia Splendid products in more than 45 countries, including Australia and New Zealand where our products perfectly suit the region's diverse climatic conditions.

UNICO BY OLIMPIA SPLENDID

Unico Pro is a wall-mounted air conditioner with no external unit. By eliminating the need for a bulky outdoor motor, Unico Pro dramatically improves the look of external walls. Designed and made in Italy with typical European style, it features a modern inverter and low-noise operation.


Unico Pro can be controlled from either the intuitive onboard backlit touchscreen display or the full-function remote control.

With a 3 speed fan to provide air circulation, the Unico Pro has both a cooling and heating mode.

A dehumidifier function is also available which reduces the humidity in the room and is particularly useful between seasons.

The optional wi-fi/Bluetooth kit extends the Unico Pro's capability for use with smartphones.

With inverter technology, Unico Air Inverter can potentially save you up to 30% of energy as compared with non-inverter products.

The Unico Pro's body is well enclosed and lined with high-level sound absorbing material. 

*Scan me to
read more*



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FROM
\$1.50/m

Tycab Flexible Cable

- Perfect for lighting, appliances and plug leads
- V90 PVC insulation and sheath to AS/NZS 3808
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- Available in 2, 3, 4, 5, 7 and 12 core
- RoHS compliant
- AS NZS 5000.2
- The most flexible cable on the market



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If it's dimmable, We Can Dim it!

All our products are designed, manufactured, and technically supported in New Zealand.



K005U Universal Dimmer 500va

TESTED with all major LED brands
Both a Trailing & Leading Edge Dimmer
Adjustable Minimum & Maximum limits
Dims LEDs down to ZERO

\$54.50



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TESTED with all major LED brands
Both a Trailing & Leading Edge Dimmer
Adjustable Minimum & Maximum limits
Dims LEDs down to ZERO

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K005M Fan Motor Controller 500va

Works on ALL motor types
Set the minimum speed for cooling
Reduce the maximum speed
for noise reduction

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The Leaders in NZ Dimmers and Controllers for 30 years.

New Zealand needed solutions to control Wire Wound Transformers on halogen lighting, and with that KIWI Electronics was born. This was quickly followed by the need to control fan speeds.

Kiwi Electronics has now developed the first Universal Dimmer, the only aftermarket product range that, fits all wall plates of ANY brand including LEDs. KIWI Electronics continues to develop solutions.

HOT DEALS

TRADE PACK 4X CAVIUS WIRELESS SMOKE ALARMS

10040 CAV10WFTP

\$276.00



- Flush or surface mounted
- **Multi-Pack; four per pack**
- 10 Year battery
- Wireless/RF interconnection
- AS3786:2014 certified; NZ Building Code and NZS 4514:2021 compliant.

CAVIUS

GREAT PRICE ON DIRECT TABLET WALL LIGHT

TABL830B

\$51.00



- Tablet Wall Light Direct
- 4W(330lm), 3000K
- IP65 for installing in harsh environments
- Operating temp. -10°C - +40°C
- Robust aluminium housing
- Center cable entry
- Large terminal block for easy installation.

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STOCK UP ON SMARTBRIGHT HIGHBAYS

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- High Efficiency, up to 140lm/W
- Both Lumen and Colour Select
- Long lifetime, 50,000hrs and 5yr warranty as standard
- Robust design, diecast housing
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PHILIPS

6 OF THE BEST DEALS YOUR MONEY CAN BUY

SURFACE MOUNTED DIFFUSED EMERGENCY BATTEN

EPIC-1200-EM

\$136.00



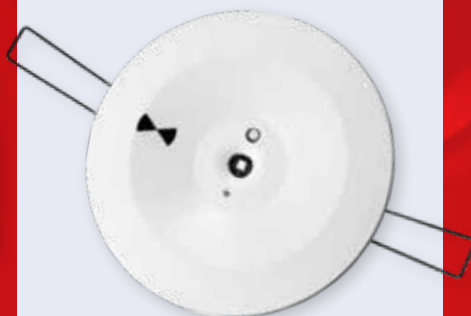
- AS/NZS 2293.3 compliant
- Long life, energy efficient LED strip module
- Switchable colour (3000K / 4000K / 5700K)
- Switchable Output
- Large terminal block for easy installation
- Self-locating lanyard from Lithium (LiFePO4) Battery.



GREAT DEAL ON RECESSED EMERGENCY LIGHTS

ELIFE-X-LI

\$94.95



- AS/NZS2293.3 compliant
- D40 emergency classification
- 145mm adapter plate included for retrofitting
- Low power consumption.



TRUE BLUE HEAVY DUTY EXTENSION CORD IN 3 LENGTHS

TBLEAD 15M

\$35.00

TBLEAD 20M

\$45.00

TBLEAD 30M

\$59.00



- Extra Heavy Duty
- 15 Amp Cable with 10 Amp plug & Socket
- Complete with Lead Holder
- 1.5mm cable.



5 MORE OF THE BEST DEALS YOUR MONEY CAN BUY

GREAT DEAL ON 56 SERIES ENCLOSURES

PDL56E2GY

\$18.70



PDL56E1GY

\$12.20



- IP66
- 1x 25mm – 1x32mm conduit entries.

PDL56E2GY

- Enclosure, 2 gang

PDL56E1GY

- Enclosure, 1 gang.

Life Is On



by Schneider Electric

MUST HAVE 56 SERIES MODULE ADAPTORS

PDL56MO
3001LEGY

\$27.90

PDL56MO
3002LEGY



- IP66 (with flap closed)
- Available in 1 and 2 gang options
- Suits all 300 Series modules including SAE and Network Connectivity
- Compatible with existing 56 Series enclosures for modular assemblies
- Allows deployment of control link mechanisms and BLE timers for connectivity with a robust enclosure for workshops etc.

Life Is On



by Schneider Electric

56 SERIES, TIME DELAY SWITCH PUSH BUTTON

PDL56PB10TLEGY

\$165.90



- Delay timer, 1 second to 24-hour time delay (1 sec resolution)
- Simple smart device app control and configuration from the Wiser by SE App
- Controllink for multi-way triggering
- Retains data during power outages for 8 hours
- 10AX/15A rated 240V latching relay contact (3 wire design)
- Run-on timer feature
- IP66.

Life Is On



by Schneider Electric

WHO DOESN'T NEED A MINI LEVEL WITH 2 RESIN VIALS

WATGPOLVL

\$9.95



- GPO Level Plaster cut template
- 2 Resin Vials
- Can be used as a template for cut-out
- Convenient and easy to use.

Wattmaster

THE BRAND ELECTRICIANS RELY ON

**KLEIN
TOOLS**

For Professionals... Since 1857

FOR ALL FANS - 10W LOW WATTAGE RUN ON A TIMER

FAN2444

\$45.00



- Suits AC and EC Fans
- Run-on timer adjustable 0 sec to 20 mins
- Delay start adjustable 0 sec to 5 mins
- Easy to install. Designed to fit in a wall mounted flush box or alternatively, within the fan-light assembly.

MANROSE

improving life indoors

FLUKE SOCKET TESTER & MULTIMETER

FLUKE-ST240+/ANZ

\$80.00



\$480.00

FLUKE-117

**Fluke ST240 RCD Socket
Tester with Audible Tone**

- Easy-to-see LEDs
- Identify common wiring problems in both standard and RCD outlets
- Integrated RCD test.

**Fluke 117 Multimeter with
non-contact voltage**

- Non-contact voltage detection for faster and safer operations.
- AutoVolt automatic AC/DC Voltage Detection
- Prevent false readings caused by ghost voltage.

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- Designed in New Zealand
- 5 year warranty

*double horizontal with extra switch/USB has an 8.5mm profile

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HORIZONTAL POWERPOINTS

MP1HB

MP2HB

MP2HU2B

MP2HXB


VERTICAL POWERPOINTS

MP1VB

MP2VB


STANDARD SWITCHES

MSW1B

MSW2B

MSW3B


COVER PLATES

MSW1PB - 1 GANG
MSW2PB - 2 GANG
MSW3PB - 3 GANG
MSW4PB - 4 GANG
MSW5PB - 5 GANG
MSW6PB - 6 GANG
MSWBPB - BLANK


ELMARK RCBO

Residual Current Circuit Breakers.
Style and Safety, All in one.

| ESC Code | Description |
|--------------|------------------------------------|
| ELMKRCBO0630 | 1P + N C Curve 6A 30mA 6kA Type A |
| ELMKRCBO1030 | 1P + N C Curve 10A 30mA 6kA Type A |
| ELMKRCBO1630 | 1P + N C Curve 16A 30mA 6kA Type A |
| ELMKRCBO2030 | 1P + N C Curve 20A 30mA 6kA Type A |
| ELMKRCBO3230 | 1P + N C Curve 32A 30mA 6kA Type A |



\$36.00



See more on our website



ZB333BK

**Sabre Seal NC Silicone
Black 300ml**

A neutral cure silicone sealant that adheres to a wide range of both porous and non-porous surfaces without the need for priming.

\$15.00



ZB333C

**Sabre Seal SG Sanitary
Silicone Clear 300ml**

Anti-fungal neutral cure silicone sealant formulated specifically for sanitary-grade applications where high humidity and temperature exist.

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ZB6ST

**SabreSeal CR Silicone
Titania 300ml**

Neutral-cure elastic silicone joint sealant, with powerful anti-bacterial properties. MPI Rated for NZ Dairy Industry.

\$15.00



ZBGF

**Sabre Seal GP
Multipurpose Gap Filler
White 300ml**

All purpose water-based acrylic gap sealant formulated for sealing and filling of low movement joints.

\$9.50



ZBMSW

**Sabre Seal MS Facade
White 300ml**

Heavy Duty flexible adhesive/sealant. Paintable & UV resistant, suitable for a wide range of indoor/outdoor applications.

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ZBPRG

**Sabre Seal NC Silicone
Clear 300ml**

A neutral cure silicone sealant that adheres to a wide range of both porous and non-porous surfaces without the need for priming.

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ZBSGW

**Sabre Seal SG Sanitary
Silicone White 300ml**

Anti-fungal neutral cure silicone sealant formulated specifically for sanitary-grade applications where high humidity and temperature exist.

\$16.00



R922

**Sabre Seal HT
High-Temperature
Transparent 300ml**

High temp, heat resistant silicone sealant formulated for heavy-duty applications.

\$24.00

See our Sabre range on
our website:



THE LARGEST RANGE OF QUALITY FULLY FEATURED PANELS AT GREAT PRICES*

serene
living



SERENITY RANGE

a model to suit every situation

1.0kW - Model S2020 **\$115.00**

1.5kW - Model S2210 **\$132.50**

2.0kW - Model S2021 **\$146.50**

2.4kW - Model S2220 **\$162.50**

Purchase 4 mixed panels and
receive a TOUGH TORCH **FOC**



Clean discrete elegant All-metal design
simple top mounted fully adjustable
thermostat. High and low heats

HUGE SAVING AND BONUS ON 'EUROPA' PANELS

'EUROPA' TOUCH CONTROL
PROGRAMMABLE PANELS NOW WITH OUR
SERENE TOUGH' LED RECHARGEABLE TORCH
... a torch with every S2212 heater purchased

VALUE \$65.00
AT NO COST



model S2212 - 2.4kW

Simple to set touch controls

- Intuitive touch controls
- Advanced heat management programs
- Backlit LCD screen
- Simple to use 24-7 'real time' programs
- Optimised power consumption ECO settings



\$170.00

***THESE OFFERS ONLY AT POWERBASE - ACT NOW**



**SO MUCH
MORE
BUT SO MUCH
LESS**



TRADE

S E R I E S

The Trade Series range from Clevertronics offers not only a wide range of products but some of the most competitive prices available.



EPIC-1200
EPIC 1200mm
Diffused LED Batten

\$89.00

- IP20
- Long life, energy efficient LED strip module
- Switchable Colour & Dual Output (3000K / 4000K / 5700K)



ARGO-1500
ARGO 1500mm
Weatherproof LED Batten

\$120.00

- IP65
- Long life, energy efficient LED strip module
- Switchable Colour (3000K / 4000K / 5700K)



ARGO-1200
ARGO 1200mm
Weatherproof LED Batten

\$89.00

- IP65
- Long life, energy efficient LED strip module
- Switchable Colour & Dual Output (3000K / 4000K / 5700K)



ARGO-1200-EM
ARGO 1200mm
Weatherproof Emergency LED Batten

\$177.50

- IP65
- Long life, energy efficient LED strip module
- Switchable Colour & Dual Output (3000K / 4000K / 5700K)

THE TRADIES CHOICE.



DIFFUSED EMERGENCY INDOOR LED BATTEN

Switchable Colour & Dual Output

The EPIC 1200mm Diffused Emergency Indoor LED Batten features a sleek and easy to install design, combined with switchable colour and output, easy slide and click assembly, mounting template and large terminal block.

The emergency version contains market leading Lithium Iron Phosphate battery technology and testing options.

Packed with features and backed by Clevertronics reliability, the EPIC is built to impress.

Applications



Retail



Corridors



Offices



Back of House



Schools

TRADE
S E R I E S

THE TRADE'S CHOICE

clevertronics.co.nz



EPIC-1200-EM
EPIC-1200-SEN-EM

Features & Benefits

- AS/NZS 2293.3 compliant
- Long life, energy efficient LED strip module
- Switchable colour (3000K / 4000K / 5700K)
- Switchable output
- On-carton mounting template
- Large terminal block for easy installation
- Self-locating lanyard from diffuser to body
- Lithium (LiFePO₄) battery technology



Inline Fan Kit

150mm EC FAN

Suitable for Bathrooms & Kitchens

- Technically advanced EC fan technology
- Install close to steam source for optimum extraction
- Now with white and black round fascia options included



\$149.00

FAN0101

• 18W EC Fan

• 105 l/s, 380m³/hr

• Standard Switching

• 0.17 W/I/S Specific Fan Power

• 38 dB(A)

150mm EXTRACTION FAN

Through Wall Mount

Suitable for bathrooms & kitchens
Stylish low profile fascia
High performance extraction



- 20W Total Load
- 60Pa Max. Fan Pressure
- 101 l/s, 364m³/hr
- 0.20 W/I/S Specific Fan Power
- 40 dB(A)

\$156.00

FAN0621

Standard Switching

\$184.50

FAN0623

Timer Switching

TERRAZZA INSTANT RADIANT HEATER

*Outdoor
Living
Extended*

Enjoy entertaining outdoors with the great new Manrose Terrazza 2000W radiant heater. Powerful long range heat projection is delivered by new low glare amber halogen lamp and reflector technology.

Great for home, public outdoor hospitality areas like cafes, restaurants and bars as well as commercial indoor applications.



- 2000W Heater Wattage
- Halogen Lamp (LHT1088)
- 304 Stainless Steel Grille
- IP65 Outdoor Application
- Stainless Steel Heater Bracket Included

\$185.00

FAN7047

MILAN BATHROOM HEAT-FAN-LIGHT UNIT

- Stylish ultra slim design
- Dedicated fans for the specialised functions of extraction (55W fan) and heat/air circulation (40W fan)
- Two user-selectable levels of heating - 1100W/2000W
- Dedicated high performance air extraction ideal for control of steam and moisture - 106 l/s, 380m³/hr
- Fan air circulating function ideal for summer cooling
- Premium LED light panel with high lumen output - 20W panel, 1500 lm

Innovative self-regulating fan heater with dedicated high-performance extraction and high output LED light.



New
**INTEGRATED
LED FAN HEATER**

\$474.00

FAN7020
White

\$474.00

FAN7021
Black



900 Series

Heavy duty rewireable plugs, cord connectors, pendants and tap-on plugs

Available in:

- ☐ White (WH)
- ☒ Black (BK)
- ☐ Transparent (CL)

Rewireable Plugs 3-Pin



Side-Entry
10A

- ☐ PDL901WH
- ☒ PDL901BK
- ☐ PDL901CL



Side-Entry
15A

- ☐ PDL901/15WH
- ☒ PDL901/15BK



Side-Entry
10A + Hook Grip

- ☐ PDL903WH



Back-Entry
10A

- ☐ PDL905WH
- ☒ PDL905BK
- ☐ PDL905CL



Back-Entry
15A

- ☐ PDL905/15WH
- ☒ PDL905/15BK

Range Plugs 4-Pin



Back-Entry 10A +
Round Earth Pin

- ☐ PDL905RWH



Back-Entry
10A + Lock Ring

- ☐ PDL905LRWH



Tap-on Side-Entry
10A

- ☐ PDL940WH
- ☒ PDL940BK
- ☐ PDL940CL



Back-Entry 32A +
1.5 Metre Lead

- ☐ PDL976



Back-Entry
32A

- ☐ PDL976PWH

Cord Connector Sockets 3-Pin



Back-Entry
10A

- ☐ PDL925RWH
- ☒ PDL925RBK
- ☐ PDL925RCL



Back-Entry
15A

- ☐ PDL925R15WH
- ☒ PDL925R15BK



Pendant Switch
10A

- ☐ PDL927



Plug & Pendant
Switch 10A

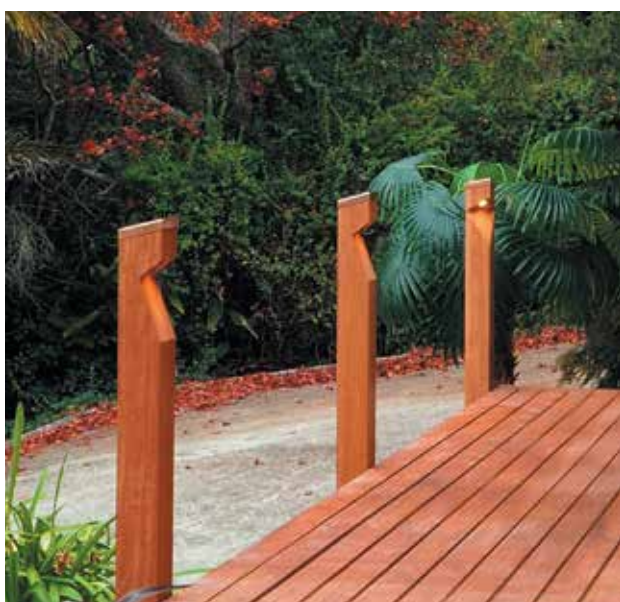
- ☐ PDL927P



Discover more with
pdl.co.nz

Life Is On

Schneider
Electric



Introducing our new Bollard variant, the Pillar Light 2!

Bollard lights are ideal for both residential and commercial applications and are a versatile and effective way to enhance the functionality and beauty of an outdoor area, providing illumination, security, and style to the property.

The Pillar Light 2 is available in both Constant Voltage and Constant Current, with a corner and straight cut variant in a 95x95x1100mm dimension. The inset SL910 M-LIGHTZ luminaire has a copper trim, and can be selected from three colour temperatures: 2700K, 3000K and 4000K.

All bollard variants are topped with a beautiful pure copper cap and made from solid untreated hardwood, which Switch Lighting is currently offering in Kwila timber – an attractive, long lasting, tannin-rich hardwood. Our range of Pillar Lights are easy to install for the contractor and offer low maintenance for the property owner.



NEW!

Pillar Light 2

95x95x1100mm



Pillar Light 1

45x45x600mm

Scan the QR code to read more about this product.





A common mistake that many amateurs make is attempting to lift the golf ball into the air to attain elevation. With a 6 iron through to the wedges it's important to create a 'ball- first then turf' impact sequence.

This correct type of impact 'traps' the ball between two solid surfaces (clubface and the ground) forcing it forward whilst 'spinning it-up' the clubface thus creating backspin and elevation.

The two most common reasons why players 'thin the golf ball' are:

1. An incorrect ball position – 'Too far forward' in the stance will often result in the ball being struck on the upswing 'raising the strike' - If you consistently 'thin' the ball, try moving the ball an inch further back in your stance. (See pic 1 - pink ball is incorrect ball position for 7 iron white ball is correct)

2. Releasing the club too early with the hands in the downswing – A release that occurs too early in the downswing causes the clubhead to overtake the hands prior to impact which 'raises' the strike and presents the leading edge to the cover of the ball.

Pic 2 Shows a downswing in which the hands have released the 'wrist hinge' created during the backswing 'too-early' – you will see that the left arm and hands are behind the clubhead at impact – I refer to players who make this mistake as 'Flippers'

Pic 3 If you are a 'Flipper', then this image shows the position that I want to convert you to – the left arm and wrists are ahead of the clubhead leading into the impact position and will deliver a descending blow onto the ball first before striking the turf.

THE DRILL

Hit 20 balls with your 7 iron attempting to keep the handle ahead of the clubhead for as long as possible into impact.

Doing so will deliver a descending blow (a ball-first then ground impact) If you manage to prevent the release of your hands until after impact the ball flight produced should be low and slightly to the right of your target – your goal is to produce 20 consecutive low punch-shots that finish to the right of your target. After 20 shots, revert to hitting 10 balls normally without this thought process in mind ...

By repeating this drill pattern over and over again, you should find that the release of the hands and clubhead will happen later in the downswing leading to the correct compression of the golf ball and fewer 'thinned' golf shots. 🏏



Premium Economy.

Designed with a very forgiving diffused wide beam the EX131-134 series is a multi-purpose light source which produces a soft, yet highly functional light effect suitable for both residential and commercial applications.

The new LEDE EX131-134 series also features dual cable entry/exit glands and plenty of internal space for quick and easy termination.



LEDE Surface Mount Exterior Column Spots

Selectable 3K/4K colour temperature, dimmable, 54,000hr lifespan, IP65, available in black or white, 5 year warranty.



EX131

- 5W, <370lm
- Ø60mm spot
- Up or down orientation

\$60.50



EX132

- 8W, <650lm
- Ø76mm spot
- Up or down orientation

\$65.50



EX133

- 2x 4W
- <600lm
- Ø60mm spot

\$65.50



EX134

- 2x 7.5W
- <1200lm
- Ø76mm spot

\$81.50

BUCKET-LIST 'ROAD TO HELL'

The Nürburgring is a legendary motorsport complex located in Nürburg, Germany.

It is known for its challenging and ultra-complex layout, which includes the 20.8 km long Nordschleife (North Loop) track, nicknamed 'The Green Hell'. It has a rich history in motorsports, having hosted numerous prestigious races (including the German Grand Prix and F1), and yet is also open to the public for tourist drives and track days. The track's unique design, combined with its onerous reputation has made it a favourite among enthusiasts and professional drivers alike.

The Nürburgring's history dates back to the 1920s when the German government commissioned the construction of a new racetrack in the Eifel Mountains. It's believed that the track was essentially constructed to alleviate unemployment and with that in mind, around 25,000 people were used to build it. Overall, the project cost around 14 million Reichsmarks, (or the equivalent of a cool \$50 million to you and me).

Designed by German architect Hermann Tilke, construction of the Nürburgring began in 1925 and was completed in 1927. The layout itself consisted of two separate tracks, the Nordschleife (North Loop) which was originally 22.9km and featured over 170 corners and 'significant' elevation changes; and the Südschleife (South Loop), a shorter 7.7 km track that was used for smaller races.

With the racetrack's complicated configuration, it quickly gained a reputation as one of the most challenging and dangerous circuits in the world, a statement backed up by the fact that it claimed many lives during its early years. It is estimated that around 70 drivers, both

professional and amateur, have died on the Nürburgring Nordschleife track alone, however, the exact number is difficult to determine as there are thought to be many unrecorded accidents and fatalities.

The extremely high fatality rate and 'other' safety concerns eventually led to the closure of the Südschleife in 1971, but in the 1980s, a new modern Grand Prix circuit was built at the Nürburgring, which then went on to host its first Formula One race in 1984. Not only did the Grand Prix circuit replace the old Südschleife but was much safer than the Nordschleife, although the Nordschleife is still used today for various racing events and continues to be a popular destination for automotive enthusiasts.

Despite the obvious potential to be broken at any moment, the 5 minutes and 19.546 seconds lap record for the Nürburgring Nordschleife track has held firm for the past 5 years. It was set on June 29, 2018, by the Porsche 919 Hybrid Evo race car driven by Timo Bernhard, a German racing driver. This lap time shattered the previous record of 6 minutes and 11.13 seconds, which was set by Stefan Bellof in a Porsche 956 race car in 1983. However, it's probably worth noting that the lap record can only be set during specific timed events or manufacturer test sessions.

Being one of the most iconic racetracks in the world, means that many notable racing drivers have competed there over the years. Jim Clark (considered one of the greatest drivers of his era) won the German Grand Prix at the Nürburgring in 1963 and 1965 and fellow Scotsman

Jackie Stewart won the German Grand Prix three times there during the 1960s and 1970s.

Niki Lauda famously suffered a horrific crash at the Nürburgring during the 1976 German Grand Prix, however, he went on to win the championship the very next year and won the championship again in 1984 (albeit neither seasons included the Nordschleife). Up and coming Brazilian driver Ayrton Senna won the 1984 Race of Champions at the Nürburgring and along with it achieved immediate peer and racing-legend attention. Seven-time Formula One World Champion Michael Schumacher won five German Grand Prix at the track, and who can forget the 'Queen of the Nurburgring' Sabine Schmitz's 10 minute race lap of the circuit in a Transit van for BBC's Top Gear show!

With almost a century of racing history under its belt, and bearing witness to some of the most memorable race meets ever, including the fierce battle between James Hunt and Niki Lauda, and Alain Prost winning the '84 Euro Grand Prix (the first F1 race there since '76), the Nürburgring has not only played an essential role in the development of motorsport, but also provided a thrilling and captivating watch for trackside spectators and armchair viewers alike.

And finally, for those that are keen, this iconic track is also accessible to the public. But a word of caution, if you are planning on heading there we suggest you take extreme care, with its 170+ corners and dubious safety record, the Nürburgring is quite literally the definition of a 'bucket-list' racetrack. ▣

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A FOCUS ON HEALTH & SAFETY

The emphasis on health and safety in the workplace can never be underestimated and at the Apprenticeship Training Trust (ATT), it is a priority.

Strong workplace health and safety practices help to manage risk for employers and workers. The benefits include higher productivity, healthier workplaces, better recruitment and retention, and fewer work interruptions. It protects workers and others against harm to their health, safety, and welfare by eliminating or minimising risks.

In a recent Workplace Safety Audit Assessment, ATT was awarded gold status, for continuous improvement and best practice framework, a standard that we consider the minimum for our workplace and for our apprentices and their host businesses.

At our recent annual Graduation and Awards celebration, one of the most important groups of national awards is the category that recognises excellence in

health and safety. Alongside our winners in the PGD trades, we also had two prestigious awards presented within the electrical sector to an apprentice and a host business, who coincidentally are both based in Wellington.

Jasmine Jarvis, an ATT electrical apprentice hosted by Vision Systems 2007 Ltd in Wellington was presented with the ATT Apprentice Award for Commitment to Health and Safety, sponsored by NZ Safety Blackwoods, for excellence in all aspects of her apprenticeship.

ATT Area Manager Paul Brosnan describes Jasmine as “a positive force of nature when it comes to learning about health and safety” and says she is extremely proactive and a very safety conscious worker. Jasmine is pictured here with her Supervisor Andy Robertson and Vision Systems Business Director, Tristan Bailey.

In deciding on the ATT host business that excels in health and safety, the judges

CALLING ALL APPRENTICES!

Welcome to the Apprentice Corner, a section for you in every issue of your Marketplace Magazine.

Apprentice Corner provides an opportunity for training providers to update our apprentices' potential employers with opportunities for future apprentice employment.



had to consider a number of factors in choosing one that demonstrates dependability, reliability, with all the policies and procedures in place to ensure a healthy safe environment.

The ATT Host Award for Commitment to Health and Safety, sponsored by Site Safe, was won by Seven Electrical Wellington and was presented on the night to their Health and Safety Officer, Brent Nixon. (Pictured here with ATT Board Chairman, Roger Gower). Seven Electrical Wellington is described as a business with a fantastic company culture, which goes above and beyond to ensure health and safety is a priority.

Congratulations to our winners, and recognition and thanks to all apprentices and host businesses who demonstrate excellence in this critically important area for all trades. ATT will continue to focus on and prioritise health and safety while encouraging and supporting its apprentices and host businesses in all aspects to ensure a safe workplace. ✓



FROM COMPUTER SCIENCE TO INDUSTRIAL SYSTEMS



TWO EXCEPTIONAL ETCO APPRENTICES



Two third year Etco apprentices with a knack for industrial systems have been selected for an exchange programme to Canada in July. Mathew Masters and Matthew Cudby previously studied at university before transferring their knowledge and pursuing a hands-on electrical career.

Masters and Cudby credit Etco for finding placements with great companies and are thrilled to be travelling to Canada, as part of the GAN International Apprenticeship Scholarship later this year to gain experience in how electrical systems overseas operate.

Mathew Masters - Daltons



Mathew Masters from Auckland took out the top prize in the industrial section of the 2022 Master Electricians Apprenticeship Challenge, despite only learning the sector existed in his first year.

"A lot of my programming knowledge has passed on with my understanding of all these electric components. For example, like a relay. You power on one side to turn the coil on and it pretty much is like a switch and turns the other side on. In programming that would be like an if statement so "if this, do this."

After completing his university degree in computer science and computational logic from Auckland University, he wanted to

do some overseas work and ended up in Japan teaching English.

"I decided I wanted something more hands-on, so I was drawn to the electrical industry. In this industry there are places where I can still do a bit of both. A bit of programming and a bit of electrical work like a factory doing PLC work."

Etco's Work Ready program set up Masters for success, he felt as though he could already wire a house!

Masters is currently with Daltons building complex panels for medical machinery and particularly enjoys visualising the drawings handed to him.

"It is definitely fun to figure out what the machine actually is doing just from the drawings. You must visualise what it's doing and where all the components are in order to place all the stuff onto the gear tray. Looming cables and having them all tied nicely together in a beautiful bundle - very satisfying."

Daltons Electrical currently choose to host twenty Etco apprentices. Managing Director Daniel Berry says "The support and communications they get from their Etco mentor, as well as us, gives them the confidence that there's a whole team of people driving their development and looking out for them."

Matthew Cudby - Network Electrical Servicing



"Don't worry about being humble. You've got to make mistakes and believe yourself".

Matthew Cudby is based in Invercargill. Prior to joining the electrical trade, Cudby served as an electronics and instrument and radar technician in the NZ Army, where he gained experience repairing and maintaining a wide range of equipment, from radios to night vision, lasers, and optics.

"I was essentially doing all the same theory just on the different end of the spectrum. It's a puzzle basically. In the army I was working on different equipment."

His background also includes computer and information science at Otago University. Now he's found his passion in being part of an electrical future.

According to his Etco apprentice mentor, Trent McKenzie, "Matthew fits in well with the teams he's been a part of and is consistently in high regard for his work ethic and performance."

Cudby is hosted by Network Electrical Servicing and is currently working on a project at Kiwi Rail refurbishing turntables. He appreciates the support that Etco provides. "You're given a mentor who sorts out all the training modules. That's a lot of weight off your shoulders".

Hoani Cooper from host company NES agrees "Etco have made the process very simple for us to engage and train some very capable apprentices."

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MORE TRANSPARENCY, PLEASE

Campbell Burnes on Rugby

Former Manu Samoa No 10 and freelance rugby scribe
Campbell Burnes argues that the All Blacks rest protocols
during Super Rugby needed to be better signposted.

No one could quite work it out. In theory, few can argue that you cannot flog All Blacks during Super Rugby Pacific in a Rugby World Cup year when we need them to be still standing by October. That was the premise behind the infamous reconditioning programme in Super Rugby ahead of the 2007 World Cup. That much maligned strategy saw 22 All Blacks removed from the first seven weeks of Super Rugby. Understandably, the franchise coaches found it hard to stomach, favouring a less prescriptive approach to resting their stars.

Each RWC year has seen rest protocols in place by the All Blacks coaches. But the difference in 2007 was that the strategy was clearly signposted and publicised.

This year, the All Blacks put the onus on the Super Rugby coaches to convey the protocols to media and the fanbase. Naturally confusion reigned and messages were mixed. It was thought that no player on the All Blacks rest list could play more than five games in a row. That included being in the match-day 23. Byes and injuries clouded the issue.

But we were not even told who all the players subject to the rest were. Blues coach Leon MacDonald volunteered to me that Mark Telea was on the list, but Patrick Tuipulotu was not. Okay, but why was Billy Harmon on the list when he had never played for the

All Blacks? Why was this not based on minutes as opposed to matches?

There was a minor hubbub when the Crusaders apparently needed dispensation to play Scott Barrett for a sixth straight game to alleviate a locking crisis. But there were several anomalies throughout the season, which went unremarked.

Richie Mo'unga played eight straight games. Fans would have enjoyed seeing more of Mo'unga as he will not be in the comp in 2024, but where was the consistency?

At the Blues, Stephen Perofeta and Hoskins Sotutu both played six games in a row, while Ofa Tuungafasi appeared in seven straight games. No one seemed to care. Were some players assessed on a case by case basis? What about the playoffs?

The Chiefs used Samisoni Taukei'aho in all of their first 10 match-day squads. Why was this allowed? Was he given dispensation like Barrett due to injuries? Maybe. But we were never told.

At the Hurricanes, Jordie Barrett and Tyrel Lomax played six straight, but Ardie Savea never more than the requisite five. At the Highlanders, Ethan de Groot played eight straight but Aaron Smith and Harmon never more than five.

Super Rugby coaches had to be strategic in how and how many they rested. As a rule, you should always play your strongest, or stronger, team at home. You owe it to the fans, who were hardly turning out in droves during the 2023 competition. You cannot control what your opposition does, especially if they are playing at home. Maybe the Chiefs did it better than most, removing their All Blacks at the same time for two matches, though they paid for it against the Reds in New Plymouth.

It's a real challenge for coaches whose KPIs are based around winning. We know there is a bigger picture in play and that is the All Blacks winning the Rugby World Cup.

But there must be a better way to do this, and there certainly needs to be better communication from the top. ■

Samisoni Taukei'aho was involved in 10 straight games for the Chiefs in 2023, despite the All Blacks rest protocols.



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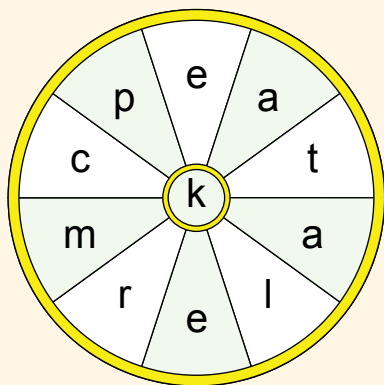
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WORD WHEEL



Find as many words as possible using the letters in the wheel. Each word must use the centre letter and at least 2 others. Letters can only be used once. Use all 11 letters to form one word. Here is a little help to find the word: A Great Magazine.

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Send in your funny jobsite failure pics and you could win!



Carl Henkel (Fusion Electrical):

"A photo of the mains entry box after being water blasted a bit too much. People complained of smelling smoke from halfway down the street."

Electrical Experts Comment:

Is it a lack of warnings in the water blaster instructions or that people don't read them? Lucky the house was so wet otherwise the results might have been more dramatic.

Take a quick pic, add a few words of text along with your name and text to **021 914 656** or email epicfail@marketplacemagazine.co.nz

Each issue will have a **\$50 Subway card** to give away for the best pic!! Master Electricians will choose the winner.

For T&C's please refer to our website marketplace.co.nz/terms-conditions

WINTER FUNFACTS

SNOWFLAKES COME IN ALL SIZES.

The average snowflake ranges from a size slightly smaller than a penny to the width of a human hair. Witnesses of a snowstorm in Fort Keogh, Montana in 1887 claimed to see milk-pan sized crystals fall from the sky. If true that would make them the largest snowflakes ever spotted, at around 15 inches wide.

PEOPLE BORN DURING WINTER MONTHS ARE LESS IRRITABLE.

While people born during the spring and summer months tend to have "excessively positive temperaments," they're also "more likely to experience rapid shifts in mood". On the other hand, those who made their entrance into the world during winter are "less likely to have irritable temperaments."

THERE'S PINK WATERMELON SNOW THAT HAS A SWEET SMELL AND TASTE.

Spotting colorful snow of any shade is exciting, but if you happen to see pink snow then you can impress your friends by letting them know it's called watermelon snow. Along with sharing the tasty fruit's pleasant pink shade, the snow also smells sweet. But that doesn't mean that you should eat it! The rosy hue is often due to algae, which can make you sick if you ingest it.

SUPPLIER PRICE NOTIFICATIONS

| SUPPLIER | MOVEMENT | EFFECTIVE DATE |
|---------------------------|----------|----------------|
| Rittal | +9.0% | Jan 23 |
| Tusk Tools | +5.0% | April 23 |
| Makita | +10.7% | May 23 |
| Advanced Motor Control | +0.7% | June 23 |
| Brother | +3.8% | June 23 |
| Klein | +2.1% | June 23 |
| NHP Rockwell | +3.07% | June 23 |
| Refrigeration Specialties | +4.5% | June 23 |
| Second Life Plastics | +4.5% | June 23 |
| Soudal | +4.7% | June 23 |
| Task Lighting | +0.1% | June 23 |
| Tricab | +2.7% | June 23 |
| Trucut | +7.2% | July 23 |

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