

## 'Miss Electropar'

Carnage On The Auckland Harbour As Title Goes Down To The Wire!

'Miss Electropar' under the watchful eye of the chase chopper as the crew battle for 3rd place on the Auckland Harbour.



Auckland harbour saw a race of absolute carnage as the NZ Offshore Championship crews put everything into the final round of the championship on 12th May. With the race not even started the first casualty of the day was claimed with Pro-Floors flipping while testing their approach line to the tight bottom mark. The crew both suffered injuries as the canopy of their Superboat collapsed on top of them, when the boat caught a sudden chop at 130kph, delaying the start some 20 minutes while the rescue teams went into action.

When the flag finally dropped huge crowds were thrilled by a feast of action. Electropar had a record turnout, with some 150 customers joining the staff under the Electropar tent and cheering on 'Miss Electropar' as the racing heated up.

After an action packed first lap the crew found themselves in 8th place. With the laps ticking by, Mark and Mike applied all the local knowledge and sheer grit they could muster, to slowly pick off

their competitors one by one.

Entering the last lap 'Miss Electropar' had made its way up to 4th position, but the team were not prepared to settled for that, as they continued to attack the 3rd place boat, overall 2007 championship winner Quick Nautical.

A fantastic back straight move saw 'Miss Electropar' turn the screws and take 3rd place, but the drama was not quite over for the boys there. As they rounded the last mark to head for home the boat struck a huge wake almost flipping and seeing a repeat of the accident the team had at Tauranga.

This time though somehow Mike and Mark were able to stay inside the boat and recover. Mark though was in some distress as he had badly injured his shoulder. In a show of true grit and determination he drove the remaining race distance one handed to see the boat cross the line in 3rd place, to rapturous applause from the shore line.

Mark was whisked off to hospital for a safety check and nurses a few bruises

and damaged AC Joint in his shoulder but unlike a few of the other competitors suffered no broken bones from the day.

'Miss Electropar' finished the 2007 series in an extremely close 4th overall. You could have thrown a blanket over the top four boats at the finish, proving again just how close the Honda Series is.

The whole "Miss Electropar" Team and Electropar staff wish to thank all those customers and suppliers that turned out at the events during the series.

With the year already half way through the 2008 series is going to be here in no time at all and we look forward to entertaining you when you join us on the waters edge next year.

For race posters, clothing, or inquiries please email Murray Howell on [murrayh@electropar.co.nz](mailto:murrayh@electropar.co.nz)

**ELECTROPAR**  
Racing  
THE POWER TO PERFORM

New Zealand:  
Australia:

Freephone: 0800 733 735  
Freephone: 1800 141 502  
[www.electropar.co.nz](http://www.electropar.co.nz)

Freefax: 0800 733 736  
Freefax: 1800 141 503  
email: [mail@electropar.co.nz](mailto:mail@electropar.co.nz)



June 2007 - Issue 7.1

## Epastart

Electropar's New Single Phase Motor Start Switch

## NEW PRODUCT!

It's **BLAST OFF** for the **NEW** Electropar designed Motor Start Switch. The Epastart has been designed to replace the Centrifugal Switch in single phase motors. With four easily setup load options the unit covers a wide range of existing motor sizes that are found in a variety of today's conveyors, vacuum and hydraulic pumps, pool motors, grinders and compressors ... Just to name a few.

### Specification

Type: Electropar Electronic Centrifugal Switch replacing single-phase motor centrifugal switches

Model: EPMS101

Motors Supported:

Single-phase 230V Capacitor Start/Induction Run (CS) Capacitor Start/Capacitor Run (CSR) motors up to 2.2kW Input

Type: Single phase 230V supply  
Nominal Supply Voltage: 230-240 VAC  
Nominal Supply Frequency: 50 Hz

Environment

Temperature Range: -5°C to 60°C  
Humidity: 0 - 95% relative humidity non-condensing  
Ingress Protection Rating: IP66

Enclosure

Enclosure Dimensions: 44mm (H) x 27mm (W) x 72mm (D)  
Mounting Method: Surface mount to motor terminal box or cable tied to externally mounted motor capacitor

Available Timing Settings: 0.5, 1.0, 1.5, 2 seconds (+/- 10%)



### What's in store this edition ...

Epastart Is Launched!	1
NZ Oil & Gas 2007	2
New Multi-Outlet Power Lead	2
Dow Corning	2
ARC Flash	3
Stahl Provides The Lights	4
Warner Air Bridge Applications	6
Intercom	6
Grafoplast	7
Miss Electropar Reports In ...	8

## Multi-Outlet Power Cable

Put the power where you want it first time ...

## NEW PRODUCT!

The NEW Multi-Outlet Power Cable delivers constant power to the places you need it. Whether on a building/construction site or an automotive workshop running multiple power tools. By utilizing it's accessibility around the home and garden, even the performing arts. With the Multi-Outlet Power Cable safe, consistent and easily accessible power is now within reach.

### FEATURES

- Power Where You Need It.
- Tradesman Tough.
- Overload Protected - Manual Reset.
- Power Overload Protected Outlets.
- Individual Illuminated Power On/Off Switches.
- Tough Durable Outlets.
- Mounting Anchors.
- 12 Metre 15A Heavy Duty Power Cable.
- 4 X 10A Outlets.
- Cable Rated Flexible To 0°C.
- Rated 240V Vac Maximum Total Load 10A, 2400W.



Meets All Australian And New Zealand Safety Requirements And Standards. AS/NZS 3105:2002



Heavy Duty 10A Plug, 15A Cable



Overload Protection, Illuminated On/Off Switches



Multi-Outlet, Suitable for Home, Work Sites, Workshops and Industry

## Dow Corning

Silastic Silicone Sealants and Adhesives

Electropar offers a wide range of Dow Corning Silastic RTV sealants and adhesives – from the tried and tested Silastic 732 range through to complex circuit board coatings and adhesives. Contact Electropar today with your application.

### Dow Corning Molykote Industrial Specialty Lubricants & Compounds

Electropar stocks, and can supply, a wide range of Dow Corning Molykote brand specialty lubricant and maintenance products. For applications involving extreme temperature, chemical resistance and food approvals please contact Electropar.

### Dow Corning Silicone Compounds

Dow Corning silicone compounds are used in a variety of applications requiring the unique combination of a silicone compounds moisture resistance, high dielectric, special lubricity, release or sealing properties.



For further information contact Simon Pratt on 09-274-2000 or [simonp@electropar.co.nz](mailto:simonp@electropar.co.nz)

DOW CORNING



## Grafoplast and SI2000

Total Label-Ability!



# Grafoplast

The world's fastest cable marking

Grafoplast offers a wide range of products for identification of cable and components inside and outside of switchboards and electrical equipment.

The manual TRASP system allows marking to be carried out prior to or post



termination. Characters remain constant throughout the process. The only thing that changes is the carrier that is used which depends on the core, cable or component marking requirement.

The key benefits of the Trasp System:

- One system marks all.
- Quick, effective and user friendly
- Reduced stock holding.

### Grafoplast SI2000.

SI2000 is a plotter system which uses the customers labelling spreadsheet to generate core and cable markers. These are plotted on a range of core markers, terminal block markers and labels for inside and outside of

switchboards. Electropar can supply complete Plotter Systems or can generate your labels for you.

For further information contact Simon Pratt on 09-274-2000 or [simonp@electropar.co.nz](mailto:simonp@electropar.co.nz)



## Electropar Product Guide Release!

**NEW... NEW... NEW...**  
**Get your FREE copy today!**

After more than 12 months and countless hours in the making, the Electropar "Quick Reference Product Guide" is now available. Complete with over 200 pages listing all of the items stocked at Electropar, the relevant Electropar stock numbers, over 450 photo's and illustrations, included also are stock numbers for many of the "special" Electropar manufactured items.

A must for everyone in the industry so for your own FREE copy, simply email Lynn Lindsay and we will get one to you. [lynnl@electropar.co.nz](mailto:lynnl@electropar.co.nz)



Features 5 Separate, Totally Indexed And Illustrated Sections Covering Electropar's Extensive Product Range!

**NEW... NEW... NEW...**

## Raxton Joins Electropar...



Electropar is pleased to announce our formal agreement to supply & distribute Raxton's range of Electrical Thread Adaptors, Reducers, Stopping Plugs and accessories including those for Cathodic Protection in New Zealand. Raxton is a brand well known in NZ having been sold here many years ago.

Problems arise when it is found there are a variety of threads in both industrial and hazardous environments. Raxton's, nickel plated brass, range of adaptors and reducers are carried in stock. We have solutions for your gas and dust applications.

For further enquiries please contact Ashley Brown on 09-274-2000 or [ashleyb@electropar.co.nz](mailto:ashleyb@electropar.co.nz)





## Warner Actuator Proven Reliability

powering the bridge you walk over ...

When Timaru's Rexel Electrical, needed to source some electric actuators, they knew who to call. Electropar!

Rexel's customer, Steelworks Engineering Ltd of Temuka had won the contract to refurbish 7 passenger boarding airbridges for major south island airports. These airbridges had been in service for 10 years, and were based on a proprietary Jetways design. Each bridge used 3 electric actuators, however the original units were rusted and it was uneconomical

Through some quick investigation work, good co-operation between, Rexel, Electropar and Warner, we managed to identify the units and get them manufactured, all this during the mad Christmas period.

The actuators were not an off the shelf product, they used 115Vac motors and had movable hinge joints. These units had shown remarkable reliability and durability, having lasted 10 years out

in the open, subjected to rain, snow, jet fuel and UV rays. This proves the quality and ruggedness of the Warner Electric brand.

Thanks to the teams at Rexel,

Steelworks, and Warner the project will be completed successfully.

For more information view [www.warnerelectric.com](http://www.warnerelectric.com) or contact [bradw@electropar.co.nz](mailto:bradw@electropar.co.nz)



## Intercom Replaces Radio

Communicating In Hazardous Areas ...

Communication in Hazardous Areas has always been a challenge due to the certification required for any equipment used in the Zones. This problem was solved in a very satisfactory manner by the use of an

Explosion protected Intercom. With the ability to communicate back to a base station or to talk from station to station the WFA Ex system is the ideal solution.



Idea for smaller sites where Certified Radios would be just too expensive or on larger sites where up to 250 call stations can be connected.

The field Station (call point) used in this application was required to be used as a single call point, back to a base station at a tank farm. The same call point can handle up to 6 lines. Call points can also be used as Warning

devices as the Site Alarm tones can be fed through the internal loudspeakers.

Intercoms have come a long way over time and the newer systems can be analogue or digital and can fit into the site PA or telephone systems if necessary.

Certified for all Hazardous Zones "Ex Intercoms" are worth evaluating if communication is an issue.

For more information contact [Mikeb@electropar.co.nz](mailto:Mikeb@electropar.co.nz)



## ARC Flash Protective Clothing Systems

Why 'Flame Resistant' Protective Clothing Also Needs An 'ATPV'

"Arc Flash protection" requirements for electrical workers, who may be exposed to flash-over or explosion hazards, are becoming more closely defined.

In North America, Hazard Risk Categories are defined by the National Fire Protection Agency (NFPA) Standard 70 E, for the tasks that electrical workers perform. These have become part of US, OSH regulatory compliance requirements. However, whilst there is currently no statutory equivalent Standard for Australia and New Zealand, our authorities do recognize that the NFPA Standard does set a reliable guide



This kit will meet the requirements of Hazard Risk Category (HRC) 2

and benchmark for selection of the right protective equipment.

NFPA Standard 70E lists Energized Equipment Tasks at various voltage's and then prescribes a Hazard Risk Category (HRC)

The HRC in turn prescribes that protective clothing and head/face protection shall comply with an "Arc Thermal Performance Value" (ATPV). The items of clothing selected must have had an appropriate ATPV proven by ASTM F1959, a rigorous standardised test. Vastly different from protective clothing sometimes seen in NZ with the 'non compliant' 'Flame Resistant' label.

Salisbury Arc Flash Protective clothing has an ATPV rating in terms of Calories per Sq cm clearly and boldly marked on the jackets, pants, overalls or face shields.

WH Salisbury have responded to the needs of the North American Industry, with a range of Arc Flash Protective Gear that fully conforms to the NFPA Standard 70 E requirements.

For most outdoor tasks an HRC of 2, with

## Gas Detection

Safety With Versatility

When an adhesives manufacturer needed to protect his staff from the possibility of exposure to toxic and combustible vapours he selected the Micro 4000 as the most flexible Four channel Gas detection controller available. All Four channels are able to accept inputs from sensors and or Sensor/Transmitter combinations that provide a 4-20mA output. It also accepts inputs directly from the Austech Combustible gas, oxygen, and 2-wire devices such as Fire, UV, UV/IR sensors. For plant control there is an RS 485 (Modbus) digital interface available.

A two line Alpha - numeric display provides continuous status indication for each channel with a choice of two user - configurable formats.

The basic unit comes with preset levels for Warning, Alarm and Fault conditions but all these are again, user configurable.

Common alarm signals are supplied for all four channels with a "Voting Logic" output. This allows the user to determine which channels will provide a Warning or Alarm signal.

All configurations are input via the front panel and this intelligent controller comes with built in self diagnostics.

Austech Instruments have their own comprehensive range of sensors and their IR sensor for combustible vapours is in high demand due to it's feature of reducing the time between calibrations - in fact there is a Gasless self test feature which, significantly increases the time between calibrations and maintains the confidence that the sensor is operating within it's calibrated parameters. Through life cost is considerably reduced.

Adhesive manufacturing has both Toxic

clothing meeting an ATPV of 8 cal/cm2 is deemed adequate. The standard 70E does however specify a HRC of 3 (ATPV of 25 cal/cm2) for hot-stick switching at 1 kV and above, including the use of a flash suit hood. Tasks in enclosed spaces many with metal clad switchgear incur an HRC of 4 (ATPV of 40 cal/cm2).

At this level of protection, fully enclosed hoods are used and Salisbury provide these with matching suits, complete with belt mounted, battery respirators. The latter are essential to deal with heat build up and CO2 dispersal.

The Salisbury Arc Flash Protective Clothing with an ATPV of 40 cal/cm2 is amazingly light and comfortable compared to that previously available in New Zealand.

Electropar Limited (NZ agent for WH Salisbury) is your Partner in this business, if you are managing electrical workers in these hazardous environments or if you are requiring such gear for your own personal work protection, give Chris Burbridge a call at our Head Office or E Mail on [chrisb@electropar.co.nz](mailto:chrisb@electropar.co.nz)

and Combustible Vapours present on site. With this application Austech Gas Detection is the ideal solution.

For further information on the Micro 4000, the Micro 12 (12 Channel) controller and other Gas Detection solutions contact Gary Pugh on [garyp@electropar.co.nz](mailto:garyp@electropar.co.nz)





# Stahl - Lighting the Difficult Areas!

# Stahl - Lighting the Difficult Areas!

**Ex**

ZONE 1 & 2 Gas ... 21 & 22 Dust

**STAHL**

Stahl provides lighting where safety is critical. Where dust, flammable vapours or gases make selection a challenge.

Electropar has at its disposal the Largest Range of Lighting for these environments in New Zealand.

A bold statement but Electropar does have a fully comprehensive range of Hazardous Area lighting.

*This vast range includes:*

**Fluorescents:** All Sizes, all mounting types (pole, surface, wall, suspension, ducting), Submersible, Recessed, Clean Room (Pharmaceutical & Food areas, Stainless Steel), Suitable for Gas & Dust Zones.

**Emergency Lighting:** Fluorescent, Exit lighting, Centralised Supply, Portable Emergency Lighting. Suitable for Gas & Dust Zones.

**High Bay Lighting:** Up to 600W, All mountings, Suitable for Gas & Dust Zones.

**Bulkheads:** Incandescent, Halogen. Suitable for Gas & Dust Zones.

**Floodlights:** up to 1000W. Suitable for Gas & Dust Zones.

**Portable Lighting:** Torches, Handlamp/ Emergency combinations, Inspection Lamps, Suitable for All Gas & Dust Zones.

**Tank Inspection Lighting:** Tank lighting, Pipeline Lighting

**NZ Oil & Gas Show  
Expo 2007  
Visit us @  
Stand 617**

