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Welcome

Welcome to the first bi-monthly newsletter from LDU. We are proud to be able to issue this newsletter to keep our customers up to date with what LDU has to offer in the field of lightning and surge protection.

First a bit about LDU. LDU started as Lightning Down Under over 13 years ago. We are 100% Australian owned with a strong reputation for supplying high quality, reliable and cost effective lightning and surge protection solutions across Australian, New Zealand and South East Asia regions. At LDU, we provide turnkey solutions for all of your lightning and over voltage protection needs. Since 1999 we have built a strong

reputation for delivering professional lightning protection solutions across all industries. Our ongoing research and design facilities in the Windsor area of NSW, allows us to keep on the front line of lightning and over voltage protection. In recent months we have expanded with an office in VIC and distributors in QLD and WA . Why not visit our web site to see if we have the answer to your problems. I look forward to working with you in the future.

Trevor Crunkhorn
CEO
LDU



Featured Solution: Prevectron ESE Terminal



The PREVECTRON® 2 Lightning Protection terminal is the most advanced lightning protection terminal available today. It is also the only lightning protection terminal which has undergone HV laboratory and in field real-life testing for over 30 years. During this time the terminal has been upgraded a number of times due to the results obtained. With over 200,000 installation throughout the world, without a recorded bypass on any system which has been installed in accordance with the manufacturers specifications, the Prevectron has an enviable record and has saved our customers literally millions of dollars in possible damage.

The Prevectron range consists of 8-models, including the new self testing model, offering a customized, cost effective solutions for each project . The system is also aesthetically appealing which allows it to fit into most Architectural designs.

Key Benefits include:

- Fully autonomous operation;
- Total reliability, even in extreme climatic conditions;
- Proven, robust design able to withstand multiple lightning strikes;
- Lightning conductor **only** becomes active when electrical field intensity rises .
- The S6.60 terminal offers a 109 meter radius at level 4 protection.



Product Review: Gatekeeper SPD



GKSD3-100/A

The Gatekeeper range of Surge Protection Devices have been designed to provide a very cost effective, high-energy surge protection for single and three phase power circuits. Being full 3-mode (Single Phase) or 10-mode (Three Phase) devices, the diverters have been designed for mounting at either main power switchboards, major distribution boards or sub-boards and should be installed in front of any surge filters or UPS's to maximise the protection offered to the load. Protection offered ranges from 50KA to a massive 320KA per phase. While a majority of the range are parallel connected surge diverters, the range also include the GKSF range of surge filters for 8, 10 and 20A applications boasting a standard 50KA of front end surge protection.

The new GKSD3-50 to 150KA SPD (see photo) has multi segmental status indication and phase thermal overload indication. The unit is also available with external alarm contacts. All the Gatekeeper SPD's are housed in a full metal jacket and are fully compliant with the various standards.



Case study: Lithgow Correctional Facility

The facility:

The Lithgow Correction Facility was established over 15 years ago as the flagship in modern technically advanced correctional facilities. This prison was to be the forerunner in new designs for state penitentiaries. It had state of the art monitoring and security facilities to enable a better and more efficient method in the operation of state correctional facilities.

Problem:

Within the first few years the NSW Correctional Services discovered that the location for the facility was not appropriate as the facility was located in a valley at the foot of an escarpment and was constantly bombarded with severe electrical storms causing havoc with the technology resulting in tens of thousands of dollars worth of damage each year.

Solution:

In 2004 LDU was approached by the Department of Corrections to investigate and propose a solution to the problem. LDU designed a system incorporating an umbrella of Prectron Lightning Protection terminals to totally cover the entire facility combined with a high quality surge protection to protect all the very sensitive technology throughout the facility.

Outcome:

Since the installation completion in 2005, the Lithgow Correctional Facility has not suffered any damage from lightning even though the first storm they experienced after the installation was one of the most severe they had on record. The department has saved millions of dollars they would have spent on repairing damage. To date LDU have installed systems in 6 other correctional facilities with similar results.

Interesting Lightning Facts

85%

of lightning victims are children and young men aged 10-35 engaged in outdoor recreation and outdoor activities.

\$6-10 Million

The amount it costs Australians in damages each year due to lightning strikes

70%

of all lightning injuries and fatalities occur in the afternoon

Worldwide thunderstorms produce approximately

6,000 lightning strikes every minute

There are approximately

80,000

thunderstorms in Australia each year

Give our friendly professional team a call

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http://youtu.be/y_y3De-Bwpl