



Design, Manufacture, Sales and Hire of Fixed and Temporary Electrical Distribution Solutions.

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CASE STUDY

THE HEALTHCARE SECTOR

Problem



The Good Hope hospital in Birmingham — originally a Victorian house — faced a novel logistical problem with its electrical infrastructure. The existing brick built building that housed the 1000A low voltage (LV) switchgear that serves the hospital's Sheldon building required upgrading to enable the consolidation of several sub distribution units, as well as to achieve the compliance of the up to date BS standards.

The replacement switchboard enclosure needed to fit the existing foot print and utilise the existing cable trenches, to minimise additional ground work costs.

Solution



To address this problem, engineers from ide Systems designed a 1000A three-phase and neutral – 400Volt – Form 4 Type 2 front access switchboard, fitted with 4 pole thermal magnetic moulded case circuit breaker (MCCB) protection devices.

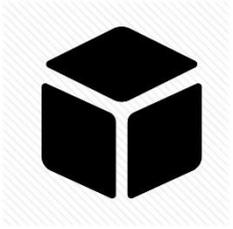
The LV switchboard was housed in a bespoke enclosure made of waterproof Glass Reinforced Polymer (GRP), which enabled the assembly to be delivered complete and pre-tested to site, avoiding site installation time and road closure disruptions.

ide designed the containerised switchboard in conjunction with the Hospital Estates Engineers and the outline design parameters, ensuring all units are “future proof” regarding standards and expansion. Prior to delivery, representatives from the NHS trust carried out a Factory Acceptance Test (FAT) to ensure all specification requirements had been met and to advise on any additional requirements due to site changes. The customer requested additional access points for fire alarm cables and SWA cable access into the GRP distribution board, which were added by engineers prior to delivery.

ide engineers provided continuous technical support to the trust and are involved in the supply of further electrical equipment to upgrade the LV distribution network throughout the hospital site.



Manufactured in the UK



Product

- GRP (Glass Reinforced Polymer) enclosure to BS476 pt 22, BS476 pt 7 Class 2, & BS7671.
- Ingress protection – IP54
- Switchboard – BS60439
- 1000amp 3 phase and neutral
- Busbar fault rating – 50kA/1sec
- Supply – 400V – 4 wire – 50Hz
- Enclosure – IP31
- Switchboard – Form 4 Type 2 Front Access



The low voltage switchboard housed in a GRP enclosure – pre dispatch.

Why we chose ide

“The support and consultancy provided throughout the project was excellent. We were particularly impressed with the follow up after-care provided by ide’s Project Manager.”

Facilities Manager

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