Non-Contact Power Logging

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INTRODUCTION

One of Victoria's hospitals required energy metering to identify the energy consumption per machine in order to accurately quantify the relevant costs and therefore correct charges for machine use to patients. Therefore, it was determined that a high accuracy power logger, that was both reliable and easy to use was required.

PROBLEM

Traditional power logging requires the engagement of a certified electrician to connect the voltage leads to bare bus boards inside a switchboard. This creates several complications such as extra time to source a suitable electrician to perform the works; additional costs to engage their services; and safety risk from short-circuit accidents, power interruptions, or bodily injury from electrocution.

SOLUTION

By understanding the end user's specific challenges, as well as the complications of accessing an suitable electrician to work inside switchboards in hospitals, the Hioki PW3365-20 Clamp On Power Logger (see Figure 1) was identified as the perfect fit for this application. Due to the non-contact clip on voltage and current clamps, it was possible for the technical engineer on-site to easily connect them to the three phase insulated cables running towards the machine (see Figure 2), without requiring a certified electrician, and providing the ease to connect and disconnect as required.



Figure 1 – Hioki PW3365



Figure 2 – Non-Contact Clamps

CONCLUSION

Through the understanding of the customer challenge, demonstration and training to teach the end user how to use, Power Parameters was successful in supporting this hospital to achieve their objective with high quality and accurate results. The lessons from this application have since been replicated to another Victorian hospital who also saw the added value of owning the Hioki PW3365-20 Clamp On Power Logger and having the flexibility to conduct their own power usage investigations.

Industries:	Healthcare
PP Products Used:	Hioki PW3365-20

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