

Case Study



Client: **St Joseph's Catholic Primary School**

Project: **IOT Emergency Lighting Upgrade**

Solution Implemented: **Plexus Smart Building Compliance Suite**

Background

St Joseph's Catholic Primary School is a community-focused educational institution in Moorebank, dedicated to providing a safe and modern learning environment for its students. As part of its commitment to safety and operational excellence, the school sought a reliable and cost-effective upgrade for its essential emergency lighting.



Challenge

The school wanted to upgrade key emergency exit signs to ensure long-term compliance with Australian safety standards. The primary challenges were finding a solution that could be implemented on a small scale to fit a modest budget, while also providing long-term value. A non-disruptive installation process was essential to avoid interrupting classes and school activities. Furthermore, the school was interested in a system that would not become obsolete but could serve as a foundation for future technological enhancements.

Solution

To meet these needs, the school implemented the **PLEXUS Smart Building Compliance Suite**, starting with the strategic installation of three smart exit signs. This project demonstrated that a state-of-the-art, automated compliance system is accessible at any scale.

This initial installation provided an affordable entry point into smart building technology by creating a foundational LoRa wireless network on the school grounds. While this network currently connects the new exit signs for automated compliance, it is also ready to support a future upgrade to the **Plexus Smart Operations Suite**.

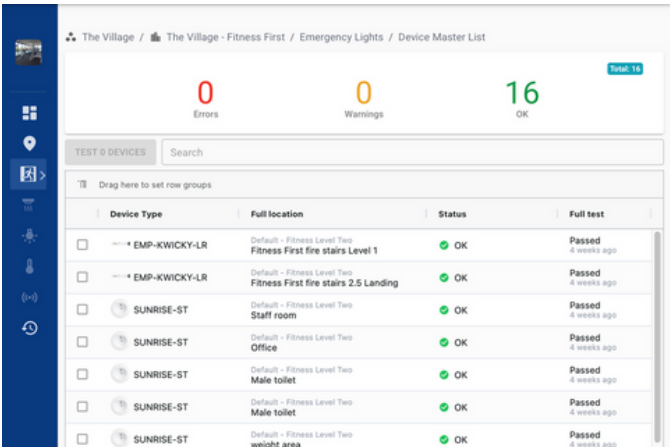
Expanding to this suite would unlock significant benefits, allowing the school to:

- Integrate smart switches to remotely monitor and control general lighting.
- Monitor power consumption in real-time to identify savings opportunities.
- Automate lighting schedules, such as turning off all lights during school holidays to reduce energy waste.
- Achieve more cost-effective maintenance through proactive monitoring of various building systems.

Results

Even on this small scale, the project delivered significant, forward-thinking benefits:

- **Affordable Compliance:** The school successfully met all safety and compliance standards with a targeted investment, proving that smart systems are not just for large-scale projects.
- **Future-Ready Campus:** With a foundational IoT network now in place, the school is perfectly positioned to easily and affordably add more smart devices and sensors in the future, transforming it into a smarter, more connected facility.
- **Zero Disruption:** The wireless nature of the system meant the installation was fast and clean, with no disruption to students or the school day.
- **Simplified Management:** Compliance is now fully automated, freeing up staff from manual testing and record-keeping.



Live dashboard shows the status of every device on site.



The view of Lake Moore

Conclusion

The upgrade at St Joseph's Catholic Primary School highlights the flexibility and scalability of the Plexus system. It proves that any organisation, regardless of size or budget, can take a crucial first step towards creating a safer, smarter, and more efficient building. This small project delivered immediate compliance and unlocked significant future potential for the school.