



Auto Control Systems was asked to produce a building management and automation system to control the electrical, gas, water and lighting systems for the recently enhanced NIB Stadium in West Perth. The clients wanted to reduce running costs and lessen their environmental footprint. Given the size of the stadium and the funding available, it was imperative to stick to budget and deliver a cost-effective solution.

CASE STUDY

The Problem

The project presented several challenges, primarily that of integrating the building management, monitoring and control into a single easy to use system. Several complex lighting options, to suit the different uses of the ground, needed to be integrated and available at the click of a single button.

The Solution

Auto Control Systems chose KNX, the global standard in building automation, to be the backbone of the system including a user interface that allows the entire stadium to be controlled from one central location.

The system was designed and built in Auto Control System's workshop and integrated into the new electrical system on-site. The controls give fine granular control of every connected system for efficiency, billing, health and safety monitoring.

Almost every electronic device in a building can be controlled through a KNX system, and those that aren't electronic by nature, can often be adapted to allow KNX control.

KNX is a globally recognised protocol and retains more than 70% of the building automation market in Europe. The most accomplished building automation

and control standard whether a multi-storey office complex, a sports stadium or virtually any other building, KNX delivers consistently.

Auto Control Systems is one of only a handful of businesses in Australia authorised and certified to design and install KNX control systems. With completed projects for government and private enterprise, Auto Control Systems has the experience and depth of knowledge that enables us to achieve better outcomes for our customers. With staff fully KNX accredited, our design and installation team produces outstanding results that will not disappoint.

Our KNX solutions are engineered to be robust, as maintenance free as possible, comprised of quality parts and be easy to use.

Return on Investment

Auto Control Systems delivered a project on budget and within the specified timeframe, resulting in a system that produced considerable savings whilst maintaining flexibility and adaptability for future growth.

Considerable energy savings.

- Lighting can be controlled automatically relative to daylight intensity independent of the installed device meaning less wires, simpler install and better control.
- Lighting and heating/cooling are only switched on when needed, according to time profiles or

even with presence detection systems, resulting in significant cost savings.

Flexibility and adaptability

- Ability for the stadium to add on extra areas for automation as and when required.
- KNX installations are easily adapted to new applications and by their nature are extendable to incorporate new devices. These devices can be easily connected to the existing installation without having to perform extensive rewiring or reprogramming.