mySmart
INTELLIGENT ENVIRONMENTS

WINYU HOUSE
125 Gungahlin Place, Gungahlin ACT

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PROJECT DETAILS:

Location	Gungahlin, Canberra ACT, Australia
Type of Building	Commercial Offices
Electrical Consultant	AECOM Australia Pty Ltd
Electrical Contractor	Heyday Group
Project Manager	KDN Group

ABOUT THE BUILDING

Winyu House is a building made for people.

The name Winyu stems from the traditional owners of the region, the Ngunnawal people, and translated means Sun. In consultation with the United Ngunnawal Elders Council it was chosen as it reflects the design features of the building and the glass atrium roof which allows the building to be flooded with natural sunlight. A dawn to dusk colour scheme has been adopted for internal areas to further blend outside and inside environments and enhance the architectural use of natural timbers.

Winyu House, boasting high environmental standards with a 4.5 NABERS rating, has been configured as a four storey office building. The large ground floor is easily accessible to the public with three levels of office accommodation above. A spacious, light filled atrium rises from the ground floor and promotes a holistic and integrated approach via design and interconnecting stairs. In addition to a café there is also a purpose built childcare centre supporting on-site working parents and the immediate community. A 245 space car park caters to short and long term parking including disabled parking and a large bike enclosure for staff who cycle to work.

Winyu House sets a new standard for the ACT Government who launch their first Access Canberra Service Centre on the ground floor. The open plan layout shopfront promotes a new service delivery model bringing together government services that were previously provided at separate locations, increasing the accessibility of government facilities to the community.

A WORLD CLASS
KNX AUTOMATION SOLUTION

Winyu House sets a new benchmark in office accommodation. Winyu provides an exemplary ergonomic working environment that enhances productivity and efficiency.

Promoting Connectivity, Collaboration and Community, the ethos of Winyu House, it includes sustainable features such as:

• Energy efficient lighting with zone controls
• Maximum use of natural light from central atrium
• Indoor air quality derived from 100% fresh outside air
• PV array to the roof
• Water reduction and harvesting system

In consultation with mySmart, a building automation integration specification was developed with the key objective to optimise lighting efficiencies via the use of sensors and building control systems. This resulted in the adoption of the KNX open protocol, a standard which guarantees products are interoperable, irrespective of the manufacturer and product type. KNX products can be sourced from a wide range of manufactures resulting in cost effective measures which are not proprietary, seamlessly connect together on the same network and without the need for special application programmes or drivers.

ENERGY EFFICIENCY

Over 400 mySmart KNX Passive Infrared Sensors have been used across Winyu House to provide not only motion detection and activity, but lighting levels in selected areas where lights can be dimmed due to sufficient natural li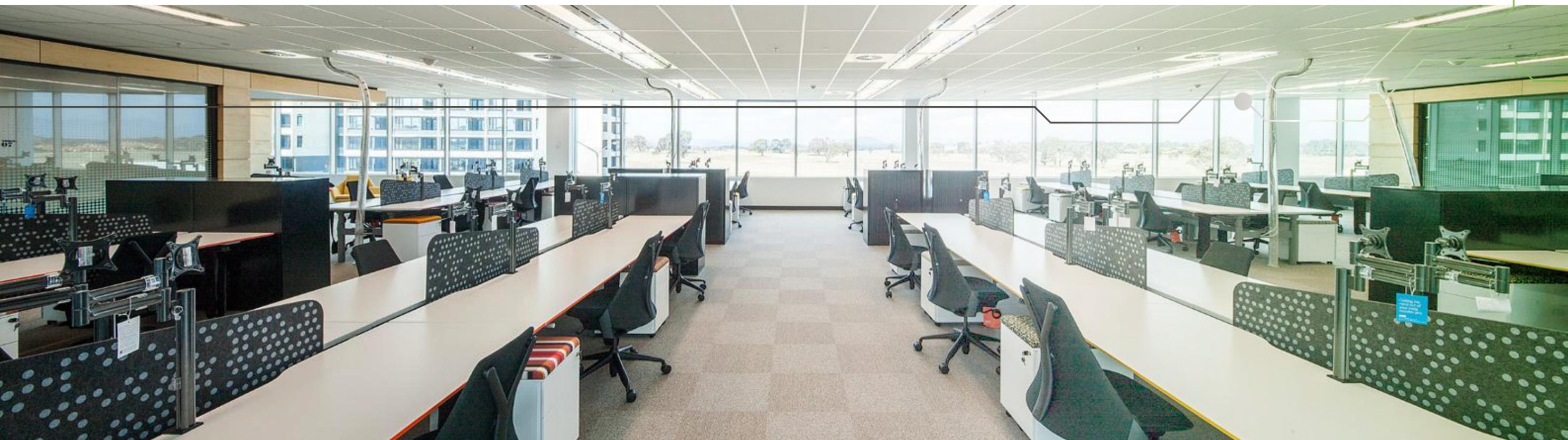ght. The MS-EBDSPIR-KNX sensor offers great flexibility with three separate logic blocks, two for movement and one for brightness allowing for various functional scenarios to be implemented. Most importantly the sensors are aesthetically pleasing with a very shallow lip visible

HEAD END
MANAGEMENT INTERFACE

NETx Automation is used for its flexibility, scalability and simple user interface. The front end has been customised to represent each level and the areas within those spaces. The system graphically displays the status of areas and allows for manual or override controls. Additionally the system can be remotely accessed for support.

IP NETWORK

To ensure ease of communication between electrical distribution board and the head end computer, all locations are linked via a high speed IP network. This provides not only a solid foundation for any future expansion but ensures the ABB KNX switchboard products communicate reliably.

THE POWER OF **KNX**

In 2015 KNX celebrated 25 years as the standard for building control around the world.

Its power lies in the fact that KNX is an open protocol and has support from over 400 manufacturers. Further, with the KNX certification process all products will operate together, regardless of the manufacturer, and are guaranteed to be both backward and forward compatible.

mySmart KNX Sensors are;

- European manufactured
- Tested in an ISO9001:2008 quality assurance certified facility
- KNX certified
- Quick and simple to install and program using ETS software
- KNX programming mode accessible via UHS7 infra-red remote handset or program button
- Programmable with an internal logic block allowing conditions to set
- Fully controllable via optional IR handset – scene selection, light level adjustment and on/ off override
- Manually controllable via two switch inputs

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mySmart is an Australian company at the forefront of creating intelligent environments across a wide range of sectors from smart buildings to smart agriculture. Our solutions are customer centric and incorporate innovative technologies and the latest sensor design, control, functionality and analytics.

Our highly trained, industry qualified Consultants and Smart Building Specialists design, optimise and service environments to enhance user comfort and productivity, whilst minimising operational costs and resource consumption.

mySmart, originally established as Complete Technology Integrations (CTI) in 2001, is a wholly owned Australian company. With a national footprint and over 60 employees, mySmart operates across a multitude of markets including commercial offices, residential, industrial & agriculture, government, retail, hospitality, health & aged care, education and leisure.

Our solutions include:

- Lighting Control and building automation
- Asset Performance Analytics
- Energy Management
- Smart building systems
- Guest Technology
- System Management Programs
- IoT Applications
- mySmart Sensors and associated products
- Unique custom solutions

mySmart. Building smart cities one mySmart Building at a time.

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