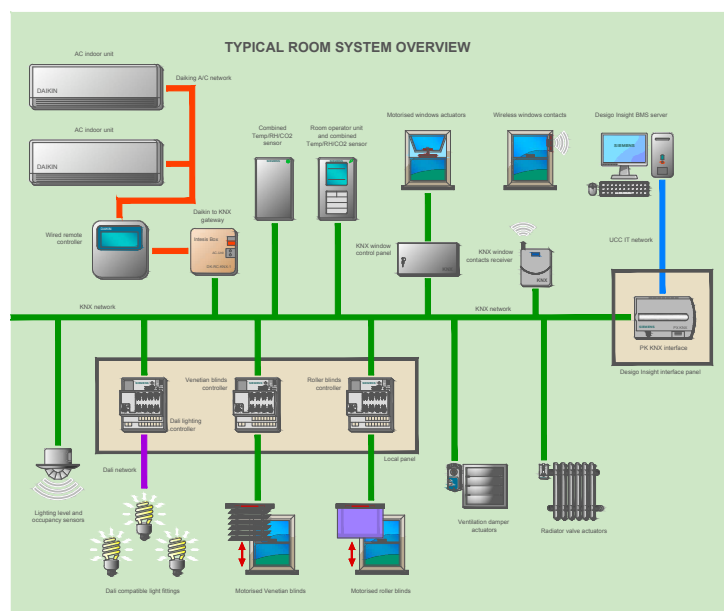


UCC Civil Engineering Building Campus 21

Integrated Building Energy Management Solution



“The KNX platform allowed Sirus to integrate the control and operation of standalone HVAC systems into the existing BMS, thus providing a means to achieve holistic management of environmental conditions and energy efficiency across the entire building”.

Campus 21 is an FP7 European funded project to develop integration strategies for ICT in building energy management systems to achieve optimised and holistic operation of Energy, Security, Safety and other Facilities Services aiming to optimise the energy usage and operational cost and to reduce the overall CO2 emission of buildings and public spaces.

The UCC Civil Engineering Building, built in 1910, was selected as a demonstrator building due to its array of existing standalone plant that had been installed through various one off projects. The aim of the project was to integrate the systems to achieve maximum energy efficiency and room comfort.

The project involved the integration of all HVAC systems across a single KNX platform, which fed into the existing Designo Insight frontend for alarming and monitoring purposes, with BMS overrides and time controls for the rooms.

Additional building automation controls were added such as; lighting level controls, motorised radiator control valves, automated roller and Venetian blinds, occupancy sensors, user interface room control units, wireless windows contacts, and motorised windows.

The KNX platform allows building operators to regulate and control global temperatures in connection with individual rooms and time periods. In non-occupied rooms the temperature is reduced, resulting in a maximum of energy savings and effective environmental control.

Building Energy Solutions

Cork | Dublin | London

www.sirusinternational.com

FINAL CLIENT

University College Cork

LOCATION

Cork City, Ireland

SERVICES PROVIDED

HVAC System survey
Liaison with system manufacturers
KNX System design and installation;
Electrical installation and additional sensors
BMS engineering and commissioning
Data Analysis
Project Management
Health & Safety management
Handover manuals

DURATION

Year 2015

REFERENCE CONTACT

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PARTNERS

Sirus Engineering Systems