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Sant Joan de Reus

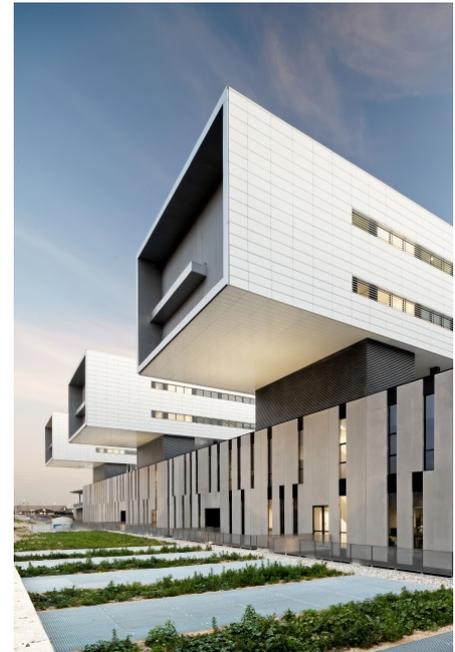
CASE STUDY

January 2014

SONTAY HELPS UNIVERSITY HOSPITAL SANT JOAN DE REUS MEET ENERGY EFFICIENCIES

The University Hospital Sant Joan de Reus building in Reus, Spain is one of the greenest hospitals in the country and incorporates a sophisticated Building Management System (BMS) to aid energy efficiency. The new hospital building features an extensive range of building control peripherals and field device products from the market leader, Sontay.

The hospital was previously at another site in Reus but has moved to the new 93,000m² building, which consists of 460 beds spread over 322 rooms and also features 12 operating rooms, 98 outpatient clinic and 47 ER beds. As a university hospital it also includes a teaching unit with the capacity for up to 600 students. Controlli Delta Spain designed the hospital's BMS and installed a number of Sontay products including temperature, humidity, pressure and light level sensors, throughout the building.



The building was intended to merge with the environment in terms of its design and eco-efficient construction.

Controlli Delta Spain used a BMS featuring BACnet protocols to ensure maximum efficiencies were met while maintaining optimal operating conditions and comfort. The technical solution adopted was an open system consisting of a set of BACnet controllers united under a TCP/IP and SCADA overhead to manage all information, with both drivers as integrated subsystems. All systems are connected directly to the TCP/IP network, with a hierarchical dependency between them allowing the direct exchange of information between systems. The central management system centralises the information from virtually all of the centre facilities – air conditioning, ventilation, electrical, plumbing, gas, lifts and energy – integrating them seamlessly into the corporate IT network.

"We use Sontay products for almost all the projects we carry out," comments Francisco Garcia, technical office at Controlli Delta Spain. "The sensors are extremely reliable and the level of technical support is consistently high. We have been customers of Sontay for many years and always feel confident



Controlli Delta Spain selected Sontay sensors for a wide range of different applications at the hospital. These include sensors to measure temperature and humidity levels, in operating theatres, patient wards, treatment rooms and other spaces throughout the hospital. Light level sensors were also installed to control the lighting system and ensure it is only used when required. Pressure sensors also monitor and control the Air Handling Units.

Taking four years to build, the hospital was designed by architects Corea & Moran and Pich-Aguilera with UTE Dragados-Abantia contractors and PGI Group also contributing to the project. The building was intended to merge with the environment in terms of its design and eco-efficient construction. All materials used are environmentally friendly and the hospital has lighting and water reduction schemes in place to ensure it runs as efficiently as possible.

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Sontay ... project key facts

The project

- Previously located at another site, the new hospital was built and designed to promote energy efficiency
- The BMS system centralises information by integrating effortlessly into the computer network of the hospital
- The materials used are environmentally friendly, and the management systems ensure that the hospital operates as efficiently as possible

Requirements

- Contemporary management of energy needs
- Merge with the environment in terms of eco-efficiency
- Ensure maximum efficiency while maintaining optimum operating conditions and comfort

Sontay products used

- Temperature and relative humidity sensors
- Pressure sensors



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