

## Sontay Swims to Success at Tollcross

The recently refurbished Tollcross International Swimming Centre in Glasgow features a sophisticated building control system, which incorporates Sontay's highly successful SonNet wireless sensing technology.

The innovative wireless system is improving energy efficiency and reducing costs for the swimming centre while also bringing greater flexibility for the use of the building.

Refurbished for the Glasgow Commonwealth Games 2014, the project involved extending the 18 year old centre's arena space to increase seating capacity. Extra seating has been added to one end of the venue with Sontay's wireless SonNet system now measuring temperature and humidity across the swimming pool area.

The building had an existing Schneider BMS system, which incorporated the new Sontay sensors perfectly and allowed them to be controlled remotely. The installation was carried out by MCE Scotland, an engineering firm specialising in HVAC control and building energy management systems.

"This is the first time we have used the Sontay SonNet system on a project," comments Gordon Hillhouse, Project Engineer at MCE Scotland. "We were originally interested in SonNet for another development and, when I was involved in the detailed site survey provided by Sontay, I realised this would be the perfect solution for the Tollcross International Swimming Centre. The flexibility of a wireless system allows for sensors to be located without the need for structural alterations and also gives us the opportunity to expand the system in the future. Also, from a health and safety aspect, less time was spent on-site installing the system and it greatly reduced the working period on high level access equipment."

Sontay's field representative carried out a detailed site



*Tollcross International Swimming Centre*



*The temperature and humidity within the Swimming centre needs to be closely monitored and controlled. SonNet proved to be the perfect choice*

survey to MCE Scotland and Glasgow City Council to prove that the equipment would work correctly, prior to installation. The project includes multiple sensors, each measuring internal temperature and humidity of the building, helping to regulate the HVAC services for optimum efficiency.

Installation was quick and easy. Since sensor operation is based on the latest 2.4 GHz licence free radio technology, specifying SonNet sensors eliminated the need for MCE Scotland to run any structured cabling to the products.

Operationally SonNet can operate using three different receiver options; a 20 or 40 output analogue version, a network radio receiver that offers direct integration with many controllers and an internally mounted option card that can be installed in the Tridium JACE and other similar controllers. For maximum reliability, operation and battery life, the sensors run a self-healing tree application. This ensures robust 'fit and forget' communications with lower installed project costs. The sensors themselves feature a battery lifetime of up to five years and are available in a number of variants, catering for space, immersion, duct and outside air monitoring.

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## Sontay ... project key facts

### The Project

- The Tollcross International Swimming Centre was used for the Glasgow Commonwealth Games 2014
- The Swimming Centre was extended to accommodate more seating
- The temperature and humidity needed to be closely monitored in the swimming pool area

### The Requirement

- An accurate and reliable wireless system was required that could be controlled remotely
- Wireless would allow sensors to be located anywhere without the need for structural alterations

### Sontay Products Used

- Sontay's SonNet wireless sensor system –
- Wireless sensors were installed to monitor the entire swimming pool area
- Site survey kit

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