

Education Case Study

Delta High School - Indiana

The installation of an IQ-based building management system at Delta High School in Muncie, Indiana, has resulted in much improved comfort conditions and lower energy consumption. Supplied by Accu-Temp of Indianapolis, the system has also enabled maintenance staff to monitor the site's services from anywhere in the school district.

The BMS's 85 network-linked IQ outstations control and monitor the school's boilers, chillers and associated pumps, plus multi-zone air handling units and around 70 fan coil units (a large number of them with fresh air dampers). A '962' client/server supervisor allows management and interrogation of the system both locally and remotely. Since a client 962 is simply a web browser, authorized access can be gained from any PC on the school district's Intranet.

School holiday dates can be entered into the supervisor well in advance, thus avoiding unnecessary use of energy. Furthermore, the 962 alerts the school when the time is right to switch from the hot to the chilled water plant, and vice-versa. Previously this had been very difficult to estimate. Unlike now, it was also difficult to identify plant problems.

IQ212s on the fan coils provide close, individual control of classroom conditions. Many of the classrooms have been equipped with Room Display (RD) units, through which the space temperature can be viewed and setpoints adjusted. They also serve as temperature sensors. Another benefit of using the RDs is that it obviated the need to fit larger IQ controllers on those fan coils with dampers, the effect of which has been to reduce system costs.

Accu-Temp has now received an order to expand the system to other parts of the school. A further 39 IQ212s will be supplied along with a number of RDs.

Accu-Temp LLC/CSUSA
Telephone (317) 638-5363
Facsimilie (317) 246-4265

Trend Control Systems Limited

P.O.Box 34, Horsham, West Sussex, RH12 2YF, United Kingdom
Tel: +44 (0)1403 211888 Fax: +44 (0)1403 241608 www.trendcontrols.com

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