Green Ridge Primary Academy

PROJECT NAME:
Green Ridge Academy

CLIENT:
Dodd Group Ltd

MARKET SECTOR:
Academic

CONTRACT TYPE:
New Build

CONTRACT VALUE:
£116k

The newly built £11m Green Ridge Academy opened its doors in September 2018 providing further capacity to the growing new housing developments north of Aylesbury, Buckinghamshire. With scope for future expansion the school has an initial capacity for 420 pupils and also features a Nursery and Pre-School.

The single storey, wrap around design which allows direct outdoor access for all classrooms also incorporates a community hub, dance studio and sports hall.

Continuing our working relationship with Dodd Group, and working in partnership with principle contractor Kier Construction, Palcon Energy Services Ltd were appointed to deliver the design and installation of the building management system to serve the new building.

Utilising Trend IQ4e controllers at its core, the design featured a single MCP control panel to take control of the heating and ventilation systems throughout the building. A conventional gas boiler LTHW system feeding zoned heating system serving all communal and academic areas.

Ventilation to the Kitchen was provided by packaged VES air handling units and successfully integrated into the system using BACnet/IP offering virtual transparent connectivity.

Further BACnet/IP interfaces allowed for the Monodraught natural ventilation units and INVent control system, fitted in each classroom as well as the large public spaces providing environmental temperature control, to be integrated back the Trend BMS with ease.

Energy data for gas and water consumption is extensively monitored via the use of pulse meters. A Synapsys SIP+/EMT module allow for real-time reading of electrical circuits and M-Bus Heat Meters all of which are accessible via the Trend operator interface fitted to the control panel.

With all the data presented on a centralised Trend 963 Supervisor, the onsite facilities team are provided with instant information about the system and its operation and performance.