

# Application Note

## CATHOLIC HIGH SCHOOL, SINGAPORE



### Number of Starter Panels :

- FCU for Server Room, LAN Rooms : 5
- HR, Flush and Domestic Pumpsets : 2
- AHU : 2

### Number of Networks :

- 1 x RS485 Network

### Description Of System Architecture

The Building Automation System of the School consists of the Status Indicating Panel (SIP), FP2 Master PLC and one network of IP3 Starter Panels for ACMV equipment (FCU, MV and Pump Sets).

The Monitoring and Control of the ACMV system is from the SIP.

The IP3 Starter Panels are programmed with Weekly 7-Day timer for automatic control of the equipment start and stop times following the school schedule.

### Distributed Control Scheme

The School redevelopment is in phases. The IP3 control with a distributed control scheme is most suitable. Each School block when completed will have the M&E system tested and commissioned individually with the IP3 Starter Panels in Automatic 7-Day schedule mode.

Finally when all the blocks are completed, all the IP3 Starter Panels are network to the Central Master PLC.

### Project Scope :

Design, supply, testing, commissioning and maintenance of Air-Conditioning, Mechanical and Ventilation (ACMV) Starter Panels, PLC-Based Status Indicating Panel and Color Touch Panel.

