

Application Note

Mid Valley City Centrepoint Office Tower 2 & 3



Number of Equipment :

- AHU = 40
- FCU = 72
- MV Fans = 28
- Secondary Pumps = 6
- Tertiary Pumps = 6
- Lighting Panels = 40
- Lift Panel = 14
- MSB = 2
- EMSB = 2
- Genset = 2
- Plumbing Panels = 3

Description Of System Architecture

The Building Automation System of the Office Block consists of Central Computer and four networks of IP3C DSP and IP2 DCP for ACMV equipment (FCU, AHU, MV, Chillers and Pump Sets), Lighting Control, Lift and Electrical Systems. The Monitoring and Control of the entire building M&E system is from the Central Computer. The PC provides Graphical displays for ease of use in daily operations.

Distributed Architecture And Fail-Safe Operation

The distributed control architecture of the IP3C DSP and IP2 DCP is ideal for Building Construction that is carried out in phases.

The BAS can be program to operate in Fully Automatic Mode with control from Central Computer. Or, in Auto-Schedule mode using the local 7-Day timer of the IP3C DSP. Thus in event of PC failure, the BAS system can operates in automatic timer mode without disruption of overall system. This fail-safe automatic control is a unique feature of IP3C DSP.

Project Scope :

Design, supply, testing, commissioning and maintenance of Air-Conditioning, Mechanical and Ventilation (ACMV) Digital Starter Panels, IP3C Digital Control Panels (DSP), IP2 Digital Control Panels (DCP) and PC-based Building Automation System (BAS).

Energy Management

Both the IP3C DSP and IP2 DCP are equipped with PID Loop control for energy management purpose in optimising the control of A/C equipment.

	IP3C DIGITAL STARTER PANEL
	IP2 DIGITAL CONTROL PANEL
	FIELDBUS NETWORK (MAX 1.2KM)

