Application Note

HB Robinson, Singapore

Project Scope :

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

Number of Starter Panels :

- WCPU : 72
- MOV : 14
- CWSP : 4
- CT : 3

Number of Networks :

- 4 x RS485 Network

Description Of System Architecture

The Building Automation System of the Office Block consists of the PC-based Status Indicating Panel (PC-SIP) and four networks of IP3 Starter Panels for ACMV equipment (FCU, AHU, MV, Chillers and Pump Sets).

The Monitoring and Control of the ACMV system is from the PC-SIP. The PC Color Monitor provides Graphical display for ease of use in daily operations.

Distributed Architecture

The distributed control architecture of the IP3 Starter Panels is ideal for HB Robinson retrofitting works that is carried out in phases. For example, the IP3 Starter Panels can be programmed with Weekly 7-Day timer in Auto-Schedule mode without the operation of the PC-SIP.

Water-Cooled Package Unit

Each of the Temperzone WCPU comes with Fan and Compressor motors that are control by the IP3 Starter Panels. The is a very unique feature of IP3 Starter Panel (1+1 starter) that controls the Fan upon starting and operates the Compressor based upon an external Thermostat input. For example, if the Thermostat cuts-in the IP3 shall operate the Compressor and off the Compressor when Thermostat cuts-out.