

Application Note

PGN Building Surabaya, Indonesia



Number of Starter Panels :

- Chiller : 2
- CT : 2
- CWP : 3
- CHWP : 3
- MV Fans : 4
- AHU : 16
- FCU : 2

Number of Networks :

- 2 x Fieldbus Network

Description Of System Architecture

The Building Automation System of the Office Block consists of the Central PC and two networks of IP3 Starter Panels for ACMV equipment (FCU, AHU, MV, Chillers, CT and Pump Sets).

The Monitoring and Control of the ACMV system is from the Central PC. The PC provides intuitive Graphical displays for ease of use in day to day operations.

Distributed Architecture

The distributed control architecture of the IP3 Starter Panels is ideal for the new PGN Building. The IP3 Building Automation System (BAS) is program to operate in Fully Automatic Mode with the control logic from the Central PC. Or, in Auto-Schedule mode using the local weekly timer of the IP3 Starter Panel.

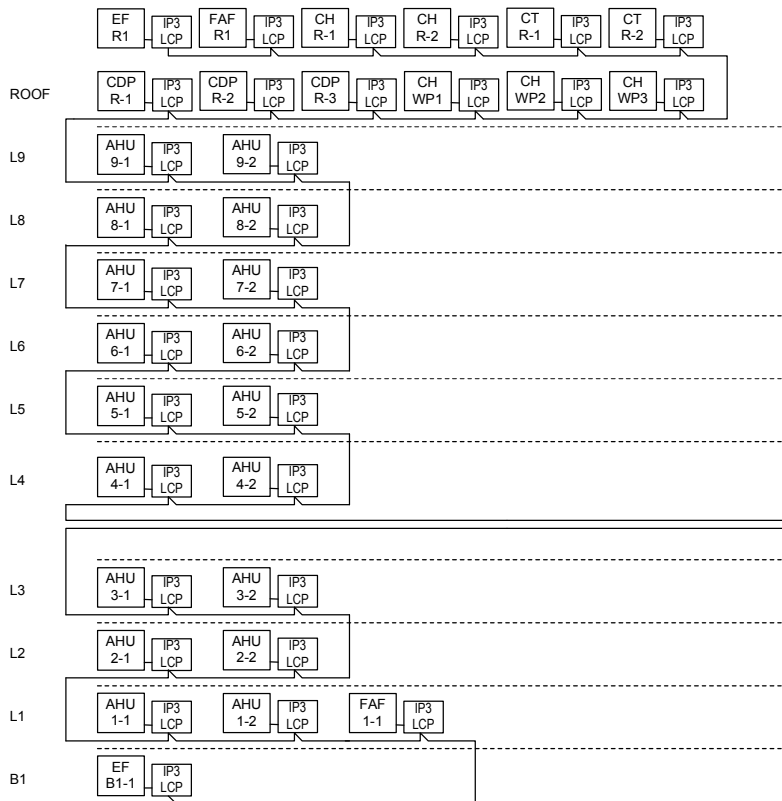
Fail-Safe Operation

Thus, in event of failure of Central PC, the BAS system shall operate in automatic timer mode without disruption of overall system.

This fail-safe automatic control is a unique feature of IP3 Building Automation System. Not, available in conventional systems.

Project Scope :

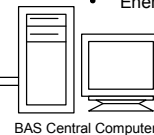
Design, supply, testing and commissioning Air-Conditioning, Mechanical and Ventilation (ACMV) Starter Panels and PC-Based Building Automation System.



Adsorption Chillers

PC-Based Building Automation System

- Pentium VI PC
- Windows XP Operating System
- Real-Time Monitoring & Control
- Alarm Management
- Energy Management



BAS Central Computer

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IP3 LCP	IP3 Local Control Panel for ACMV Equipment