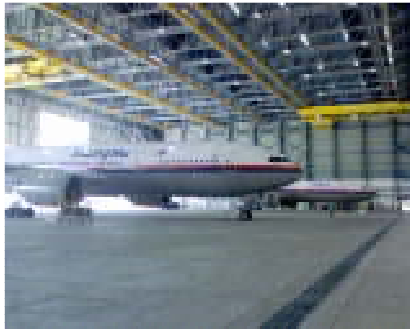


Application Note

KLIA, A380 MAS HANGER 6



Number of Networks :

- 1 x Fieldbus Network

Description Of System Architecture

The Building Automation System of the A380 Hanger consists of LCD Color Touch Panel, FP2 Master PLC and one network of IP3C Digital Starter Panels (IP3C DSP) for ACMV equipment (CHW Pumps, AHU, PCA and MOV).

The Monitoring and Control of the ACMV system is from the LCD Color Touch Panel. The IP3C Digital Starter Panels are programmed with Weekly 7-Day timer for automatic control of the equipment start and stop times following.

Energy Management

IP3C Digital Starter Panels are equipped with PID Loop control for energy management purpose in optimizing the control of A/C equipment.

Distributed Architecture And Fail-Safe Operation

The distributed control architecture of the IP3C DSP is ideal for mission critical installation that requires distributed control and fail-safe operations.

The Building Automation System is program to operate in Automatic Mode with control from Master PLC. Or, in Auto-Schedule mode using the local 7-Day timer of the IP3C DSP.

In event of PLC failure, the BAS system shall operate independantly 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) IP3C Digital Starter Panels, Master PLC with Color Touch Panel.

Number of Starter Panels :

- CHW Pumps : 4
- CHW Bypass Valve : 1
- AHU : 9
- PCA : 3

IP3	IP3 DIGITAL STARTER PANEL REMOTE TERMINAL TO MASTER PLC
—	FIELDBUS NETWORK, 2P STP 18AWG MAX. 1.200M (ACTUAL PATH)

