



SALIENT FEATURES

- Training system to provide studies of energy distribution & management in a typical industrial building.
- Provides for all normal types of energy source, sink & transfer mechanism, control over major variables & floor monitoring facilities arranged as rows.
- Provides facility for computer control and monitoring also manual assignment.
- Each panel has ABS molded plastic sturdy enclosure, and colorful screwless overlays showing circuit diagram & its connection tag numbers for easy understanding and connections.
- Set of Instructor Guide & Student Workbook.
- Aluminum profile sturdy flat panel (table top) system showing various segregated loads found in industrial building arranged in rows.

Technical Specifications :

❖ Type of Loads

Arranged in segregated rows with independent power measuring meters and automated switch gears for transfer mechanism, through use of PLC & SCADA.

- Illumination
- Industrial load or IT load
- HVAC chiller / pumping / Air handling units
- Misc. load like lifts, canteen etc.
- Water pumping

❖ Input 3 phase DOL Starter panel (EMT1)- 4 Nos

[10 Shrouded Banana]

- 4 pole MCB of 415 V/2A .
- DOL 9A Contactor with 230V / 50 Hz / 11VA COIL .
- Bimetallic thermal O/L relay with range 1.4A - 2.3A .

❖ Integrated AC 3 phase measurement panel (EMT 34) – 4 Nos. [4 Shrouded Banana]

- Consist of 96 mm X 96 mm Digital meter for 3 phase.
Measures V, I, PF (0.2 lag – unity 0.2 lead), Hz. Hence separate analog wattmeters 3 phase are not needed.
- Current specs for 3 phase meter = 5A
- Modbus communication over RS485

❖ PLC

- LG master J120S series
- K7M DR 30UE (18DI + 12O)
- Memory 2K step (EEPROM) 0.4 usec per instruction
- Software : KGLWIN supports ladder programming & monitoring / troubleshooting & instruction set.
- Communication : RS232C for Ladder Programming, RS485 with LG protocol ports for Multidrop Networking.
- Operating voltage : 110/220Vac + 20% 50/60 Hz, PLC (55 VA), 24VPS (75VA)

❖ Converter cum Distribution Panel / CDP

- Total 64 No. of 4 mm Banana Sockets, 24 for Digital Inputs, 16 for Digital Outputs, 4 for Analog I/O & 16 for +24V Supply & GND
- Facilitates easy replacement / maintenance / wiring.

❖ 3 Simulation cum Extension Panel / SEP

- a) For Digital Outputs :
 - 8 No. of LED Indicator, 8 No. of Relay Panel with coil rating 24V and contact rating of 220V AC / 1 Amp.(Resistive).
- b) For Digital Inputs :
 - 8 No. of Digital Input. (4 toggle switches + 4 push buttons)

❖ Power Supply Panel

- 24V / 2 Amp. SMPS type Supply, 16 No. of 4mm Banana Sockets for extension, Power ON indicator / Switch

❖ SCADA Software

- SCADA software development suite supplied on installable CD. Supports 25 tags, with USB hardware lock provided P4/XP needed but PC not in scope of supply. Interfaces with PLC through RS232C comport.

❖ Uninterruptable Power Supply [UPS]

- Output Voltage : 220V +10% / 500VA
- Quazi Waveforms

❖ Mechanical Dimensions & Weight

- 1170 (L) x 300 (W) x 990 (H)
- 45 Kilograms

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