



SYSTEM OVERVIEW:

The Commercial Building Management System (BMS) Trainer is designed to provide comprehensive, hands-on training in the field of building automation and services management. This trainer replicates the functions of a real-world BMS system used in modern commercial and industrial facilities.

It allows students and trainees to monitor, control, and optimize HVAC systems, lighting, occupancy, air quality, and environmental conditions using sensors, actuators, PLC-based control, HMI, and BMS software platforms. The trainer must simulate real-world building

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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automation systems and include essential components for monitoring and controlling building services.

Key Features

- Complete BMS training system with modular architecture.
- Integrated sensors, actuators, panel meters, and indicators.
- Simulated sensor signals via variable potentiometers to emulate different operating conditions.
- Real-time monitoring and control capabilities.
- Graphical User Interface (GUI) for data visualization and system control.
- Capability to interface with industry-standard BMS software.
- Expandable design to allow future integration of additional modules.

Specifications

Sensors

- Temperature Sensors (Room and Duct)
- Humidity Sensors
- Pressure Sensors (Air and Water)
- CO2 Sensors
- Occupancy Sensors
- Light Level Sensors
- Actuators
- Motorized Dampers
- Variable Frequency Drive (VFD) for fan speed control
- Solenoid Valves
- Relay Controls

Interface and Control Modules

- Digital and Analog Input/Output Modules
- Programmable Logic Controller (PLC) with communication interface
- Touchscreen HMI (Human-Machine Interface) panel
- BACnet/IP or Modbus communication protocol support
- Manual override switches for troubleshooting and simulation.

Software and Connectivity

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- Compatible with industry-standard BMS platforms.
- Remote access capability via Ethernet or Wi-Fi.
- Data logging and trend analysis tools.
- Cloud connectivity for remote monitoring and control (if applicable).
- User-friendly software for real-time system control and diagnostics.
- Power and Safety Requirements:
- Operates on standard electrical supply (e.g., 220-240V AC, 50/60 Hz).
- Built-in safety features such as overload protection and emergency stop button.
- Compliance with relevant electrical and safety standards.

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