

IoT Controller Demo Board

System Overview

Main Components

No.1 IoT Controller (ACTA208)

- The "brain" of the system
- Processes sensor data and executes automation rules
- Controls 8 relay outputs (K1-K8)
- Connects to the network for remote access and work with AMS.

No.2 ACTAtek device (AT-1K-FA-FSTA-WI-P)

- 1K Users; PIN, Facial, Fingerprint, 13.56MHz Mifare, NFC, Cepas, Felica, DesFire & HID iClass (Read Card S/N Only) and third-party cards. Includes intrusion detection and QR code recognition with CMOS camera for photo capture and live video streaming.

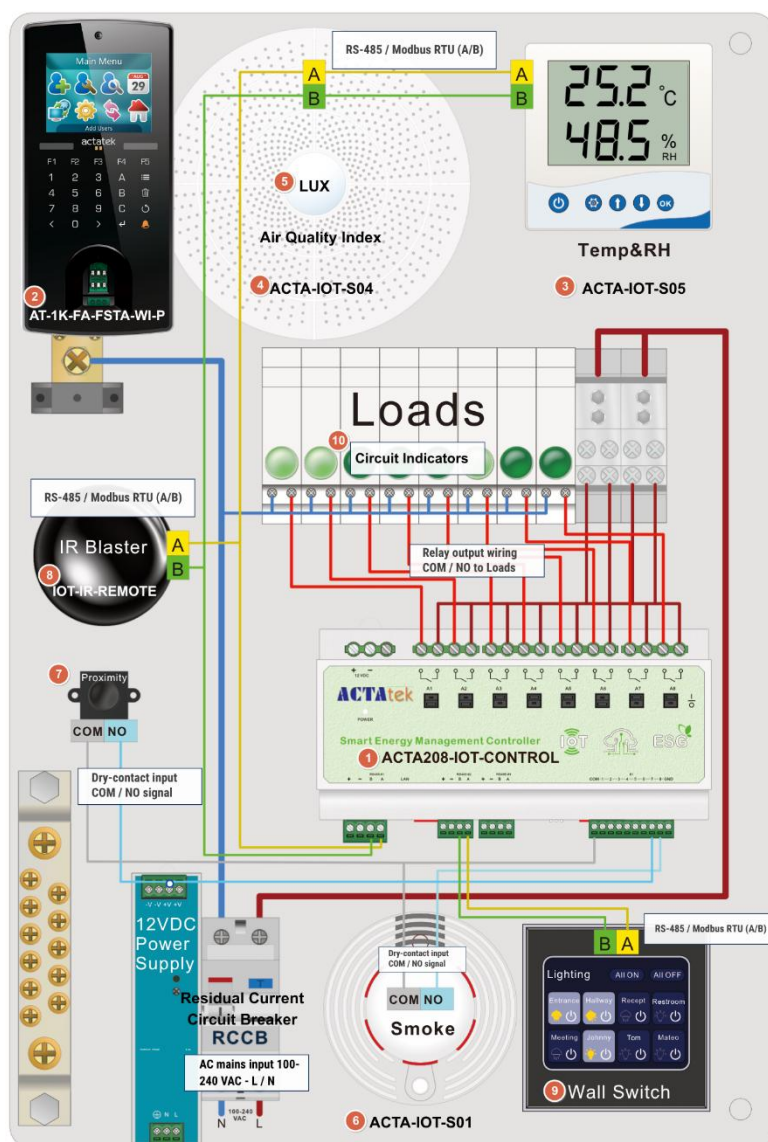
Sensors

- **No.3 Temperature & Humidity Sensor:** Monitors ambient conditions
- **No.4 AQI Sensor:** Measures air quality (CO₂, PM2.5, VOCs, etc.)
- **No.5 Lux Sensor:** Detects light intensity
- **No.6 Smoke Sensor:** Detects smoke for safety monitoring
- **No.7 Human Presence Sensor:** Detects human presence for monitoring and automation.

Control Devices

- **No.8 IR Blaster:** Controls IR-remote appliances
- **No.9 Touchscreen Wall Switch:** Manual control interface

ACTAtek IoT Demoboard Connection Diagram



- **AMS Software:** Remote monitoring and configuration

Outputs

- **No.10 8x Circuit Indicators (K1-K8):** – show the status of each circuit. In real installations, they are not required; included only for demonstration purposes only. **Not Relays**