

# UL Listed Fire & Smoke Curtain Controller

SECURITY  
SIGNALING



LISTED  
S35507  
TYPE: F



## Product Overview

UL Listed Fire & Smoke Curtain Controller is a vital safety device engineered to efficiently manage the deployment and retraction of UL-listed fire and smoke curtains in response to fire alarm signals. This controller ensures optimal safety and compliance in commercial and industrial environments, providing essential protection against smoke and fire hazards.

## Specification

Model	Group Controller: <b>NF-FGCP</b> Motor Controller: <b>NF-FMC</b>
Certification	UL Listed (S35507)
Compliance Standard	UL 864
Power Supply	120-230 VAC / 50-60 Hz
Maximum Motor Control Capacity	Up to 6 motors (20W each) - (Model: NFG42/40) Up to 3 motors (40W each) - (Model: NFG53/30)
Battery Backup	Up to 12 hours (12V / 7Ah x 2 set).
Integration	Compatible with Building Management System (BMS) via optional integration board (Model: NBMS).
Stage Delays	Features a 2-stage delay with adjustable closing delay for controlled operations.
Manual Test Keys	For manual operation and testing of the system.
Override Function	Optional override features for manual curtain operation.

## Key Features

- **Main Control Unit (NF-FGCP):**
  - Centralized management for fire and smoke curtain deployment and retraction.
  - Direct interface with fire alarm systems for prompt emergency response.
- **Motor Control Unit (NF-FMC):**
  - Individual control for each motor, allowing precise management of curtain movements.
  - Effectively manages controlled gravity fail for enhanced safety and reliability.
- **Integration with BMS:**
  - Optional BMS board for enhanced facility management, providing real-time monitoring and control capabilities.
- **Operational Mechanism:**
  - Curtains remain retracted, secured by low-voltage power supplied to the motors.
  - Automatic deployment is initiated upon fire alarm activation.
- **Fire Alarm Signal Input:**
  - Equipped with dual normally closed, volt-free contacts for reliable and secure signal reception, ensuring rapid response.
- **Safety Features:**
  - **Battery backup:**
    - Prevents unintended deployment of curtains, ensuring emergency readiness without false activations.
  - **Override Function (Optional):**
    - Allows manual operation of the curtain through a push button for emergency exit purposes.
  - **Stage Delay:**
    - Equipped with a 2-stage delay function to ensure safe exit during emergencies.
  - **Delay Closing:**
    - Includes a built-in delay activation feature to prevent unintended closing due to false alarms.
  - **Warning Light & Sounder (Optional):**
    - Provision for external warning light and sounder to alert when the curtain is deployed.
  - **Light Curtain (Optional):**
    - Provision for a light curtain to prevent accidental collisions during curtain deployment.

