

PRODUCT DATA SHEET

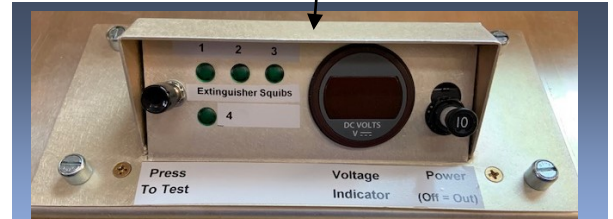
**SMOKE DETECTION
AND FIRE SUPPRESSION
APPLIANCE**
(U.S. Patent Pending)



TOP VIEW



Front View of Appliance



Bottom View of Control Unit

APPLICATIONS:

- | | |
|----------------------------------|---------------------------------------|
| Aircraft Cargo Operations | Electrical Cabinets |
| Renewable Energy (Wind Turbines) | Storage Cabinets |
| Buses / Trains / Boats | Plant Rooms |
| Commercial / Military Aircraft | Drones |
| Power Stations | Manufacturing Warehouses |
| Intermodal Shipping | Mechanical / Electrical Control Rooms |

The AAE FPS Appliance's smoke detectors will respond "within 60 seconds of initiation of a small amount of smoke as described in U.S. FAA Advisory Circulars AC 25-9A and in AC 25-22, Paragraph 39 (§25.858)".

DESCRIPTION: The AAE FPS Appliance is an "Autonomous" Fire Protection System Appliance that provides **smoke detection** and **fire suppression** for containers, rooms, cabinets, stations, or compartments that are not monitored. The Appliance is not mechanically or electrically connected to, or dependent on, any other system. The Appliance detects smoke and discharges an aerosol agent that completely floods the containment area. The amount of aerosol can be sized to fit any compartment. The Appliance can send signals to a separate monitoring station. The Appliance can receive signals from other sequential FPS systems. It is made of a rugged construction and has a long service life.

OPERATION: The FPS Appliance is equipped with two "Single Channel" smoke detectors. One detector provides the "A" loop; and the other detector provides the "B" loop. Each detector features one bi-colored LED for indication of status. In a normal standby condition, the LED **flashes "Green"** every 3 seconds. When the detector senses that its sensitivity has drifted outside the UL listed sensitivity window, the LED will **"flash Red"** every 3 seconds. When the detector senses smoke and goes into alarm, the status LED **"latches solid on RED"**. An alarm is indicated when "both" detector channels sense smoke. When an alarm is indicated by the detectors, a signal is sent to the FPS Appliance's Control Panel. The Control Panel immediately (less than 5 seconds) discharges each of its aerosol containers. The total amount of aerosol agent completely floods the area to be protected.

Classes of Fire (NFPA 2010)	Class A, Class B, Class C
Power Requirements	12-volt Lithium Ion Phosphate battery
Dimensions	27" x 19" x 5.5"
Appliance Weight	34.0 (+/- .10) pounds
Self-activation temperature of Aerosol Generating Solid Compound.....	300°C
Environmental parameters	
• Ozone Depletion Potential.....	Zero
• Global Warming Potential.....	Zero
• Atmospheric Life Time.....	Negligible
Aerosol discharge time5 seconds (Min.) – 10 seconds (Max.)