

The Dual Compartment Control Box is a compact, small size controller that receives detection signals and activates the fire extinguishing systems in engine/crew compartments.

Microprocessor based electronics, enable flexibility to fit specific system configurations and operating logic. The typical control panel includes indication and warning signals, and manual activation. Modern RS-485 serial communication port enables connection to a main control system and can be used for maintenance and trouble-shooting.



## Main Features

- High speed response (less than 5 msec)
- Alarm detection indication
- Accepts input signals from optical, wire heat and spot heat detectors (total of up to one wire heat and four optical/spot heat detectors)
- Overheat indication for engine compartment
- Monitors and activates up to four extinguishers
- Accepts external manual activation inputs
- Indication and warning signals
- Automatic Built-In-Test (BIT) on start-up
- Integral manual activation
- High reliability
- Automatic extinguisher activation
- RS-485 Modbus compatible
- MTBF minimum 160,000 hours

## Control Specifications

### Detectors Interface

- Supplies protected voltage to detectors according to MIL-STD-1275E
- Accepts fault or alarm signals from the detectors
- Provides activation signal to the extinguishers

### Extinguisher Status Monitoring

Continuously monitors for circuit continuity, pressure level and adequate operation of extinguishers  
Provides activation outputs for extinguishers

### Outputs

#### Indication and Warning Signals

"Power" LED	indicates proper power supply
"Alarm" LED	indicates detection signal
"Fault" LED	indicates detectors / extinguishers / control box fault, using flickering code

### Built In Test (BIT)

Identifies and indicates faults in the electrical circuits of the control, provides operational status of the extinguishers and their circuitry, checks optical detectors functionality

### Manual Extinguisher Activation

Enables manual activation of the extinguishers. Can be located on the panel or externally

## Electrical Specifications

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<b>Operating Voltage</b>	18-33 VDC
<b>Power consumption</b>	Normal 300mA Max. 18A in approx. 30msec.
<b>Electrical Connection / Pinout</b>	<b>Connector J1</b> (D38999/20WC98PN) Power input and vehicle system interface <b>Connector J2</b> (D38999/20W19SN) Crew/Engine Compartment I/O
<b>Electrical Input Protection</b>	According to MIL-STD-1275E
<b>Electromagnetic Compatibility</b>	EMI/RFI per MIL-STD-461E
<b>Inputs</b>	Receives signals from heat/optical detectors/ extinguisher pressure switch

## Mechanical Specifications

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<b>Dimensions</b>	4.72" x 4.37" x 3.2" (120 x 111 x 81 mm)
<b>Weight</b>	2.1 lb (0.96 kg)
<b>Enclosure</b>	Aluminum, white epoxy enamel finish
<b>Environmental Standards</b>	Meets MIL-STD-810F for high temp, low temp, humidity, vibration, shock, waterproof, dust, salt & fog