

The Multi Compartment Control Box receives detection signals from both engine, crew and other protected compartments and activates the fire extinguishing system.

Microprocessor based electronics, enables flexibility to fit specific system configurations and operating logic. The control panel includes indications and warning signals, manual activation, system test features, modern CANBUS serial communication port enables connection to vehicle control system and can be used for maintenance and troubleshooting.



Main Features

- High Speed Response - less than 5 msec
- Accepts input signals from optical, wire heat and spot heat detectors
- Monitors and activates extinguishing cylinders
- Indication and warning signals
- Integral Manual Activation
- Automatic cylinder activation
- Alarm detection indication
- Overheat indication for engine compartment
- Accepts external manual activation inputs
- Automatic and Manual Built-In-Test (BIT)
- High Reliability
- RS-485 Modbus Compatible
- MTBF Minimum 120,000 Hours

Control Specifications

Detectors Interface

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

Cylinder Monitoring Status

Continuously monitors for circuit continuity, pressure level and adequate operation of up to two cylinders
Provides activation outputs for cylinders

Outputs

Indication and Warning Signals

"Power" LED	indicates proper power supply
"Cylinder" LED	indicates proper cylinders and harness status
"Detection" LED	indicates detection signal. Flickers at warning level, steady at alarm level.
"Fault" LED	Identifies and indicates faults in the electrical circuits of the control, provides operational status of the cylinders and their circuitry.

Built In Test (BIT)

Identifies and indicates faults in the electrical circuits of the control, provides operational status of the cylinders and their circuitry.

Manual Extinguisher Activation

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

Electrical Specifications

Operating Voltage	Operating Voltage: 18-33 VDC	
Power consumption	Normal 300mA	Max. 18A in approx. 30msec
Electrical Connection / Pinout	Connector J1 (D38999/24WB98PN)	
	24V In	A
	RTN	B
	Connector J2 (D38999/24W19SA)	
	Crew Cyl. Out	1-A, 2-D, 3-G, 4-K
	Crew Cyl. RTN	1-B, 2-E, 3-H, 4-L
	Crew Cyl. Pressure SW	1-C, 2-F, 3-J, 4-M
	Engine Cyl. Out	1-N, 2-S
	Engine Cyl. RTN	1-P, 2-T
	Engine Cyl. Pressure SW	1-R, 2-U
	Connector J3 (D38999/24WC98SN)	
	Heat Wire Detector Signal	1-A, 2-C
	Heat Wire Detetor RTN	1-B, 2-E
	24V In	D
	RTN	E
	Cylinders Activation via Control Box	F, H
	Activation Engine Cyl.	G
	Activation Crew Cyl.	2-J, 4-K
	Connector J4 (D38999/24WD19SN)	
	Detector 24V Out	1-A, 2-E, 3-J, 4-N, 5-T
	Detector RTN	1-B, 2-F, 3-K, 4-P, 5-U
	Detector Signal	1-C, 2-G, 3-L, 4-R, 5-V
	BIT Input, Detector	1-D, 2-H, 3-M, 4-S
Electrical Input Protection	According to MIL-STD-1275D	
Electromagnetic Compatibility	EMI/RFI per MIL-STD-461E	
Inputs	Receives signals from heat/optical detectors/ extinguisher pressure switch	

Mechanical Specifications

Dimensions	9.37" x 6.02" x 3.31" (238 x 153 x 84 mm)
Weight	4.85 lb (2.2 kg)
Enclosure	Aluminum, white epoxy enamel finish
Environmental Standards	Meets MIL-STD-810E for High Temp, Low Temp, Humidi Vibration, Shock, Waterproof, Dust, Salt & Fog