

The Spectrex Military Engine Control Box is the latest model being installed in military tactical vehicles.

The unit is microcontroller based enabling flexibility in system design and adjustment of features to a specific application. RS-485 communication provides outputs for control, set up, maintenance and diagnostics.

The control box governs the engine compartment system components; The unit is ideal for small vehicles.



## MAIN FEATURES

- \* High Speed Response - less than 3 msec
- \* Accepts input signal from two spot heat detectors
- \* Monitors and activates two cylinders
- \* Indication and warning signals
- \* Accept one external manual activation input
- \* High Reliability
- \* RS-485 Modbus Compatible
- \* MTBF Minimum 100,000 Hours

## CONTROL SPECIFICATIONS

### Input from Spot Heat Detector

- \* Supplies protected voltage to detector.
- \* Accepts fault or alarm signals from the detector
- \* Provides activation signal to the extinguishers

### Monitoring of Cylinders Status

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

### Outputs

#### Indication and Warning Signals

- \* "Power" LED - indicates proper power supply
- \* "Fault" LED - indicates proper cylinders and harness status
- \* "Alarm" LED - indicates detection signal.  
Flickers at warning level, steady at alarm level.

### 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.

**ELECTRICAL SPECIFICATIONS**

<b>Operating Voltage</b>	18-32 VDC
<b>Power consumption</b>	Normal 50mA
	Max. 80mA
<b>Electrical Connection / Pinout</b>	Model No. 764640
	Connector DTM-1412PA
	Vin 18-32 VDC 1
	RTN 2
	Detector Signal 1 3
	Detector 24V Out 1,2 4
	Detector Signal 2 5
	Activation Cyl. 1 6
	RTN Cyl. 1 7
	Pressure Switch Cyl. 8
	VCC 24V 9
	Ext. Sw. RTN 10
Comm. Port 11	
Comm. Port 12	
<b>Electrical Input Protection</b>	According to MIL-STD-1275B
<b>Electromagnetic Compatibility</b>	EMI/RFI per MIL-STD-461E
<b>Inputs</b>	Receives signals from 2 spot heat detectors
	Receives signals from up to 2 extinguisher pressure switch

**MECHANICAL SPECIFICATIONS**

<b>Dimensions</b>	" x 2.75" x 3" (108mm x 70mm x 76.6mm)
<b>Weight</b>	1b (0.570 kg)
<b>Enclosure</b>	Aluminum, white epoxy enamel finish
<b>Environmental Standards</b>	Meets MIL-STD-810E for High Temp, Low Temp, Humidity, Vibration, Shock, Waterproof, Dust, Salt & Fog