

### Eagle Quantum Premier® Addressable Smoke & Heat (ASH) Module EQ3750ASH



#### DESCRIPTION

The EQP Addressable Smoke and Heat (ASH) Module is designed to expand the input and output capability of the Det-Tronics Eagle Quantum Premier® system.

The ASH is an interface device designed to provide continuous and automated fire protection. It ensures system operation through supervision of system inputs/outputs and Local Operating Network/Signaling Line Circuit (LON/SLC) monitoring in the Controller.

The ASH is located directly on the LON of the EQP system, with a loop of up to 64 addressable devices tied into the ASH. This allows the EQP Controller to annunciate a fire alarm from either its own LON based I/O or from the ASH connected addressable detection loops (See Figure 2).

System status can be determined using the Eagle Quantum Safety System Software (S<sup>3</sup>), and the status indicators on the module.

#### FEATURES AND BENEFITS

- Expands the capabilities of the Det-Tronics Eagle Quantum Premier system.
- EQP Controller can support up to 10 ASH modules on a loop (this support is dependant on system configuration and logic withing S<sup>3</sup>).
- Provides power and communications to 64 addressable devices.
- Utilizes Apollo Discovery devices.
- ASH alarm and fault conditions are logged in the EQP controller.
- LEDs for easy annunciation of power, faults and an active device on the loop.
- Monitors single addressable devices.
- Provides remote I/O capabilities via LON/SCL.
- DIN rail mounting.
- Plug-in wiring connectors.
- RFI and EMI hardened.

# SPECIFICATIONS

**Input Voltage** 24 Vdc nominal, 18 to 30 Vdc.  
**Input Current** 690 mA, maximum.  
**Loop Current** 225 mA, maximum.  
**Power Consumption** 11 Watts, maximum.



**Wiring (Maximum)**



	12 AWG	14 AWG	16 AWG	18 AWG
	4 mm <sup>2</sup>	2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	0.75 mm <sup>2</sup>
<b>Feet</b>	15500	9800	6200	3900
<b>Meters</b>	4700	3000	1900	1200

**Temperature Range** Operating: -40°F to +185°F (-40°C to +85°C).  
 Storage: -67°F to +185°F (-55°C to +85°C).


**Humidity Range** 5 to 95% RH, non-condensing.

**Certification:**


  FM / CSA: Class I, Div. 2, Groups A, B, C, D (T4).  
 Class I, Zone 2, Group II C (T4).

 ATEX:  II 3 G  
 Ex nA nL nC IIC  
 DEMKO 10 ATEX 150744U  
 Tamb = -40°C to +85°C.

Compliance with: EN 60079-0:2006  
 EN 60079-15:2005.

 IECEx: ULD 10.0004U  
 Ex nA nL nC IIC  
 Tamb = -40°C to +85°C.

Compliance with: IEC 60079-0:2004  
 IEC 60079-15:2005.

 CE: The ASH Module can **not** be used for applications that fall within the scope of the CPD directive.

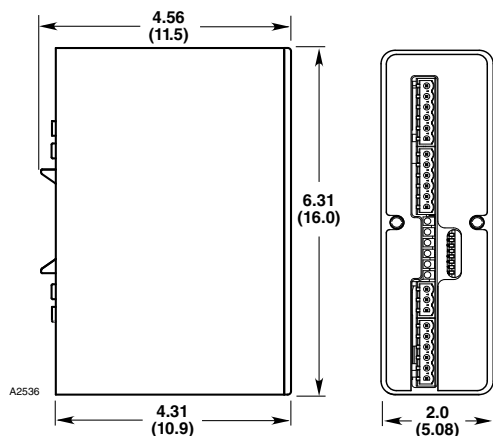


Figure 1—Dimensions of the ASH Module in Inches (Centimeters)

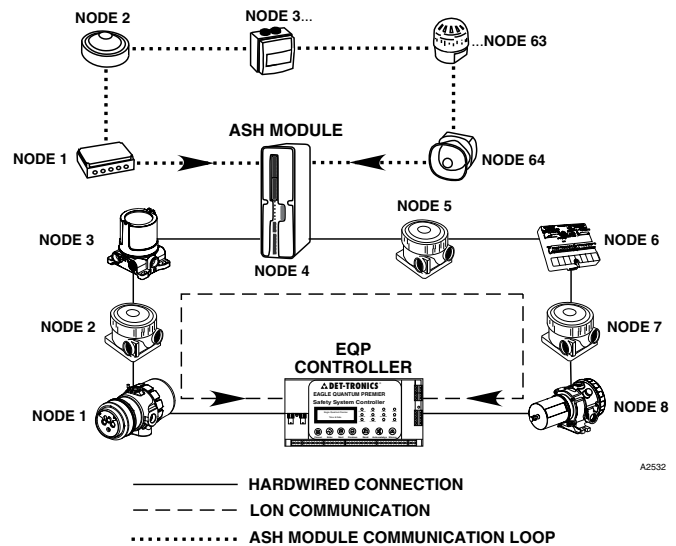


Figure 2—EQP LON with ASH Module Communication Loop

**Dimensions** See Figure 1.

**Shipping Weight** 2.7 pounds (1.22 kilograms).

**Supported Devices**

APOLLO SPEC SHEET	DEC PART NUMBER	APOLLO PART NUMBER	DEVICE NAME
PP2052	000515-501	58000-500	Apollo Ionization Smoke, EU
PP2052	000515-502	58000-600	Apollo Optical Smoke Detector, EU
PP2052	000515-503	58000-400	Apollo Heat Detector, EU
PP2052	000515-504	58000-700	Apollo Multisensor, EU
PP2052	000515-505	58000-300	Apollo Carbon Monoxide Detector, EU
PP2092	000515-509	55000-847	Apollo Input / Output Unit, with Isolator
PP2094	000515-510	55000-852	Apollo Sounder Control Unit
PP2084	000515-511	55000-841	Apollo Switch Monitor Plus
PP2052	000515-512	58100-908	Apollo Manual Call, with Isolator
PP2052	000515-513	58100-951	Apollo Manual Call, with Isolator, IP66
PP2267	000515-515	55000-278	Apollo Sounder, 100dB, Red
PP2267	000515-516	55000-274	Apollo Sounder, 100dB, Red, IP66
PP2156	000515-517	55000-877	Apollo Beacon, Red
PP2267	000515-518	55000-293	Apollo Sounder / Beacon, with Isolator
PP2390	000515-551	58000-550	Apollo Ionization Smoke, NA
PP2390	000515-552	58000-650	Apollo Optical Smoke Detector, NA
PP2390	000515-553	58000-450	Apollo Heat Detector, NA
PP2390	000515-554	58000-750	Apollo Multisensor, NA
PP2390	000515-559	55000-806	Apollo Priority Switch Monitor, NA
PP2390	000515-560	55000-825	Apollo Sounder Control Module, NA
PP2390	000515-561	55000-820	Apollo Input / Output Module, NA
39214-387	000515-562	55000-765*	Apollo Mini Monitor Module, NA or Apollo Priority Mini Switch Monitor, NA

\* The device type depends on the priority switch setting on the device.  
 NA = North American Approvals  
 EU = European Approvals

Specifications subject to change without notice.

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