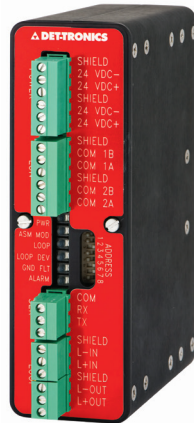


# Eagle Quantum Premier® Addressable Smoke (ASM) Module EQ3760ASM



## DESCRIPTION

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

The ASM 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 ASM is located directly on the LON of the EQP system, with a loop of up to 100 addressable devices tied into the ASM. This allows the EQP Controller to annunciate a fire alarm from either its own LON based I/O or from the ASM 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 ASM modules on a loop (this support is dependant on system configuration and logic within S<sup>3</sup>).
- Provides power and communications to 100 addressable devices.
- SIL2 capable certified by Exida.
- Intrinsically safe capability.
- Utilizes Apollo Discovery and XP95 devices.
- ASM 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°C to +85°C (-40°F to +185°F).  
 Storage: -55°C to +85°C (-67°F to +185°F).


**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:** Ex II 3 G  
 Ex nA nC IIC T4 Gc  
 DEMKO 10 ATEX 150744X  
 Tamb = -40°C to +85°C.

**Compliance with:** EN 60079-0:2012  
 EN 60079-15:2010.

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

 **IECEx:** ULD 10.0004X  
 Ex nA nC IIC T4 Gc  
 Tamb = -40°C to +85°C.

**Compliance with:** IEC 60079-0:2011  
 IEC 60079-15:2010.

 **SIL 2:** IEC 61508: 2010 Parts 1-7  
 Certified SIL 2 Capable.

**Dimensions** See Figure 1.

**Shipping Weight** 2.7 lbs. (1.22 kg).

**Supported Devices** See Table 1 on page 3 for list of supported devices.

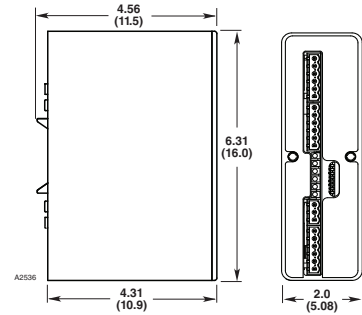


Figure 1—Dimensions of the ASM Module in Inches (Centimeters)

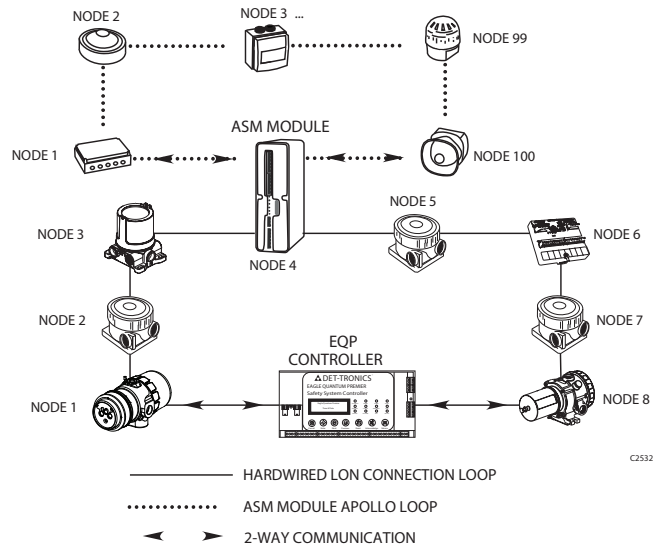


Figure 2—EQP LON with ASM Module Communication Loop

Specifications subject to change without notice.

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Table 1—List of Supported Devices

DET-TRONICS PART NUMBER	APOLLO PART NUMBER	DEVICE NAME
000515-503	5800-400	Apollo Heat Detector, EU
000515-XXX	58000-400MAR	Apollo Heat Detector, EU Marine
000515-XXX	55000-440	Apollo Heat, IS **
000515-XXX	58000-400SIL	Apollo Heat Detector, SIL2
000515-553	58000-450	Apollo Heat Detector, FM
000515-501	58000-500	Apollo Ionization Smoke, EU
000515-XXX	58000-500MAR	Apollo Ionization Smoke, Marine
000515-XXX	58000-600MAR	Apollo Smoke, EU Marine Optical
000515-XXX	58000-600SIL	Apollo Smoke, SIL2 Optical
000515-XXX	58000-540	Apollo Ionization Smoke, IS **
000515-XXX	58000-640	Apollo Smoke, IS Optical **
000515-551	58000-550	Apollo Ionization Smoke, FM
000515-552	58000-650	Apollo Optical Smoke Detector, FM
000515-550	53546-022	Apollo Duct Smoke Det. Base EU
000515-XXX	58000-700MAR	Apollo Multisensor, EU Marine
000515-504	58000-700	Apollo Multisensor, EU
000515-XXX	58000-700SIL	Apollo Multisensor, SIL2
000515-554	58000-750	Apollo Multisensor, FM
000515-505	58000-300	Apollo Carbon Monoxide Detector, EU
000515-509	55000-847	Apollo Input / Output Unit, with Isolator
000515-512	58100-908	Apollo Manual Call, with Isolator
000515-513	58100-951	Apollo Manual Call, with Isolator, IP66
000515-517	55000-877	Apollo Beacon, Red
000515-557	55000-750	Apollo Isolator, FM
000515-559	55000-806	Apollo XP95A Priority Switch Monitor, FM
000515-560	55000-825	Apollo XP95A Sounder Control Module, FM
000515-561	55000-820	Apollo XP95A Input / Output Module, FM
000515-XXX	45681-210MAR	Apollo Mounting Base, Marine, FM
000515-XXX	45681-215	Apollo Mounting Base, IS
000515-XXX	45681-211MAR	Apollo Isolator Base, Marine, FM
000515-XXX	45681-242	Apollo Relay Base, FM, EU
000515-XXX	45681-211	Apollo Isolator Base, FM
000515-XXX	55100-940	Apollo Manual Call Point, Standard, Non-Isolated, Waterproof, IS **
000515-XXX	55000-960	Apollo Manual Call Point, Break Glass, Non-Isolated, Waterproof IS **
000515-XXX	55000-970	Apollo Manual Call Point, Push Button, Non-Isolated, Waterproof, IS **
000515-XXX	55200-910	Apollo Manual Call, Standard, Non-Isolated, Non-Waterproof, EU
000515-XXX	55200-950	Apollo Manual Call, Standard, Non-Isolated, Waterproof, EU
000515-XXX	58200-971MAR	Apollo Manual Call, Standard, Isolated, Waterproof, Marine
000515-XXX	58100-908SIL	Apollo Manual Call, Standard, Isolated, Non-Waterproof, SIL2
000116-180	53832-070	Apollo Remote Led 1 Gang Red
000515-510	55000-852	Apollo Sounder Control Unit
000515-515	55000-278	Apollo Sounder, 100dB, Red
000515-518	55000-293	Apollo Sounder / Beacon, with Isolator
000515-516	55000-274	Apollo Sounder, 100dB, Red, IP66
000515-XXX	55000-041	Apollo Sounder XP95a, Isolated, Non-Weatherproof, UL
000515-XXX	58000-005	Apollo Sounder Beacon Discovery, Non-Isolated, Non-Weatherproof, EU
000515-XXX	55000-298	Apollo Sounder Beacon XP95, Isolated, Waterproof, EU
000515-XXX	55000-374MAR	Apollo Sounder Beacon Discovery, Non-Isolated, Weatherproof, Marine
000515-XXX	58000-011	Apollo Sounder Beacon Discovery, Non-Isolated, Weatherproof, UL
000515-XXX	55000-398MAR	Apollo Sounder Beacon Discovery, Isolated, Weatherproof, Marine
000515-XXX	55000-182	Apollo Sounder Control, Din Rail, EU
000515-XXX	55000-181MAR	Apollo Sounder Control, Din Rail, Marine
000515-XXX	55000-803	Apollo I/O, Din Rail, EU
000515-XXX	55000-774MAR	Apollo I/O, Din Rail, Marine
000515-XXX	55000-588	Apollo 3 Channel I/O, Standard, EU
000515-XXX	55000-847SIL	Apollo I/O, Standard, SIL2
000515-XXX	55000-804	Apollo Relay Output, Din Rail, EU
000515-XXX	55000-771MAR	Apollo Relay Output, Din Rail, Marine
000515-511	55000-841	Apollo Switch Monitor Plus
000515-XXX	55000-822	Apollo Switch Monitor, Din Rail, EU
000515-XXX	55000-772MAR	Apollo Switch Monitor Plus, Din Rail, Marine
000515-XXX	55000-775MAR	Apollo Mini Switch Monitor, Mini, Marine
000515-XXX	55000-845	Apollo Zone Monitor, Standard, Eu
000515-XXX	55000-812	Apollo Zone Monitor, Din Rail, Eu
000515-XXX	55000-773MAR	Apollo Zone Monitor, Din Rail, Marine
000515-XXX	55000-859	Apollo Vac I/O, Standard
000515-XXX	55000-855	Apollo Is Protocol Translator, Sgl **
000515-XXX	55000-856	Apollo Is Protocol Translator, Dbl **
000515-XXX	29600-098	Apollo Is Galvanic Barrier **
000515-XXX	55000-721MAR	Apollo Isolator, Marine
000515-562	55000-765*	Apollo Mini Monitor Module, NA or Apollo Priority Mini Switch Monitor, FM

The device type depends on the priority switch setting on the device.

\*\* Not FM approved as non-interfering

FM = FM Approved

EU = European Approvals

Table 1—List of Supported Devices, Cont.

UL BASIC FILE NO.	DET-TRONICS PART NUMBER	APOLLO PART NUMBER	DEVICE NAME
S5022	000515-507DET	45681-284DET	Isolating Base, FM
S24867	000515-605DET	56000-005DET	Pull Station, Addressable, Dual, UL Listed
S5022	000515-552DET	58000-650DET	Optical Smoke Detector, FM
S5053	000515-553DET	58000-450DET	Heat Detector, FM
S5022	000515-554DET	58000-750DET	Multisensor Smoke Detector, FM
S5022	000515-555DET	45681-210DET	Mounting Base, 4", FM
S5022	000515-556DET	45681-225DET	Mounting Base, 6", FM
S7003	000515-557DET	55000-750DET	Isolator, FM
S7003	000515-558DET	45681-211DET	Isolator Base, FM
S7003	000515-559DET	55000-806DET	Priority Switch Monitor, FM
S7003	000515-560DET	55000-825DET	Sounder Control Mod, FM
S7003	000515-561DET	55000-820DET	I/O Module, FM
S7003	000515-562DET	55000-765DET	Mini Monitor Module, FM
S7003	000515-620DET	55000-863DET	Relay Output Module, FM
	000515-557	55000-750	Isolator Module, FM

The device type depends on the priority switch setting on the device.

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