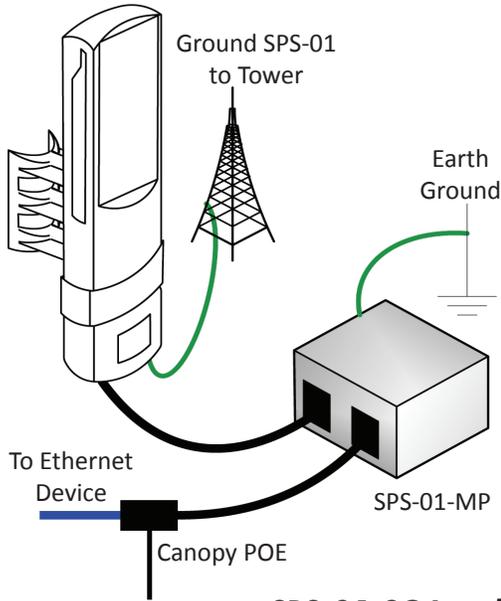


# SPS-01 SERIES

## Surge Suppression System for Motorola Canopy® Radios

### SPS-01-AP

The SPS-01-AP is specifically designed to work with access points and backhaul timing master radios. It has the surge suppressor protection benefits of a SPS-01 product and has the added feature of translating the timing signal from a GPS over POE device to one that the Canopy radio can recognize over the timing port. In addition, the SPS-01-AP removes the original GPS pulse so that a clean power signal is sent to the Canopy radio. This can be particularly useful if an AP/BH suddenly fails to recognize the GPS over POE signal.



**SPS-01-SC Install**

### SPS-01-MP

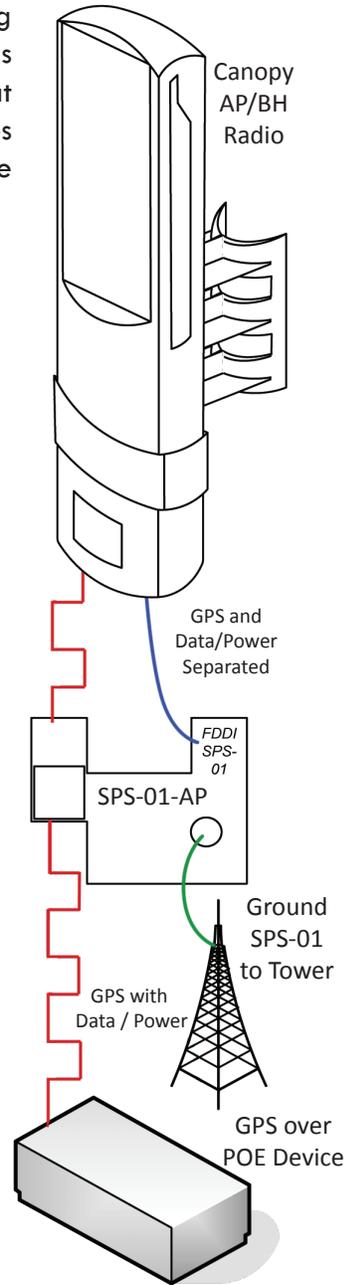
The SPS-01-MP is an indoor unit designed to be near the switch and/or the power supply. This model also has a grounding lug. Lights on the unit indicate power and data traffic. Used with any of the other SPS-01 models this offers a complete protection circuit; protecting components both at the top and bottom of the installation.

The GPS pulse is moved from the power port to the timing port. This insures a clean 24VDC signal is sent to the Canopy radio. It also maintains that the radio cannot receive two GPS signals simultaneously. Once the Canopy radio is programmed to Receive Sync From Timing Port, the radio will receive its sync from the GPS over POE device on the timing port through the SPS-01-AP.

### SPS-01-SM

Grounding a Canopy SM at a customer's installation is of great importance. The SPS-01 can make sure it is done simply and correctly. The form factor of the design allows the SPS-01-SM to easily slide into the case of the Canopy SM. Remove the bottom case cover, connect the RJ45 jumper and the CAT5 cable, attach the grounding cable, slide in the surge protector into the Canopy SM case and replace the cover. This provides a simple and cost effective way to ground the Canopy radio topside.

### SPS-01-AP Install



SPS-01 Models:		(Patent Pending)
SPS-01-AP	AP / BH model includes GPS shift to timing port	\$99
SPS-01-SM	SM radio protection	\$63
SPS-01-MP	indoor CPE unit	\$52
SPS-01-AC	AP and MP combo pack	\$129
SPS-01-SC	SM and MP combo package	\$99

# FDDi

[www.fddisystems.com](http://www.fddisystems.com)

1501 S. Main St.  
Tulsa, OK 74119

(918) 584-2007 phone  
(918) 584-0030 fax

# SPS-01 SERIES

## Surge Supression System for Motorola Canopy© Radios

### Frequently Asked Questions

Will the SPS-01-AP or the SPS-01-SM work with another surge protector; like the Motorola 300SS, or a Transtector model?

*Yes, it will, provided both units are grounded to the same the same Earth Ground source.*

Does the radio need to be reprogrammed once the SPS-01-AP is installed?

*Yes, the Canopy AP/BH must be programmed to "Receive Sync From Timing Port." Once the SPS-01-AP has been installed, the GPS pulse has been moved from the power port to the timing port.*

Does the SPS-01-AP need to be grounded to operate?

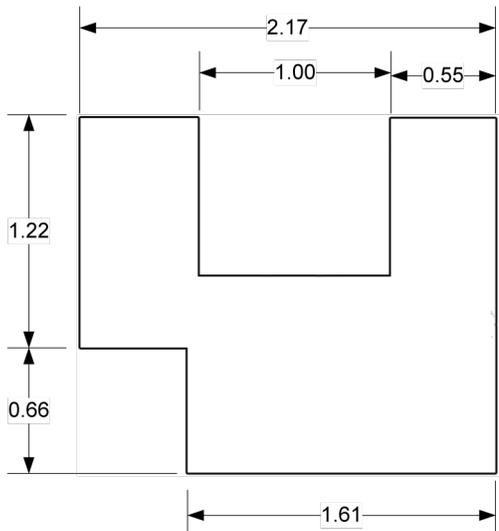
Yes, it needs to be properly grounded to operate correctly. If the SPS-01-AP is not grounded correctly, then Ethernet data traffic will not pass correctly.

Does the SPS-01-SM need to be grounded to operate?

No, it is not required that the SPS-01-SM be grounded to operate, however, it is highly recommended. Without a connection to ground the SPS-01-SM cannot preform its function: to protect the Canopy equipment.

### SPS-01AP and SPS-01SM

#### Dimensions (inches)



#### Model Configurations:

SPS-01 Model	SPS-01-AP	SPS-01-SM	SPS-01-MP
DC Line Voltage (pins 4, 5, 7, 8)	24 VDC		
Data Line Voltage (pins 1, 2, 3, 6)	5 VDC		
Input Connector	RJ45		
Output Connector	RJ45 and RJ11	RJ45	
GPS Timing Pulse Delay	< 10 ns	N/A	
Operating Temperature	-40 °C to 55 °C		

#### SPS-01 Models:

(Patent Pending)

SPS-01-AP	AP / BH model includes GPS shift to timing port	\$99
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