

Overview

The ACM1008 power supply is a reliable way to distribute +12V power to an AirCare control network.

AirCare Automation network devices, such as the ACM1004 Interface for GE ECM motors, and ACM1007/1009 Interface modules require a powered network to operate. The ACM1008 is one option to power these units.



Product Description

The ACM1008 is a low-voltage Switched-Mode Power Supply with an output of 12 VDC at 1 Amp. Input power to the ACM1008 is supplied from an AC to 24VAC isolated, step-down transformer commonly found in HVAC applications.

The output is short-circuit protected and current limited to less than 2 Amps under fault conditions.

Jumpers located behind each CAT5 connector provide directional powering of the CAT5 system. Multiple ACM1008 should not be powering the same lines and should not compete for the load. Jumpers should be set to avoid this operating condition (see diagram Pg 2).

A special feature of the power supply is on-board surge suppression for all power and data-lines.

Specification

- Output: 12VDC at 1 Amp
- AC input range: 14-28Vac
- DC input range: 18-40Vdc
- Fault Protected
 - Short-circuit protected
 - Internally current-limited to 1.2A
- LED Power Indication
- Simple connections
 - RJ45 for network
 - ¼ " Quick connect for transformer
- Open-frame PCB with standoffs
- 0-40° C Operating Temperature
- Surge protection for power and data lines
- Dimensions: 2.20"(56mm) x 3.00"(76.3) x 1.45" (36.90)

Installation

The ACM1008 should be used with a transformer which is suitable for the environment and end application.

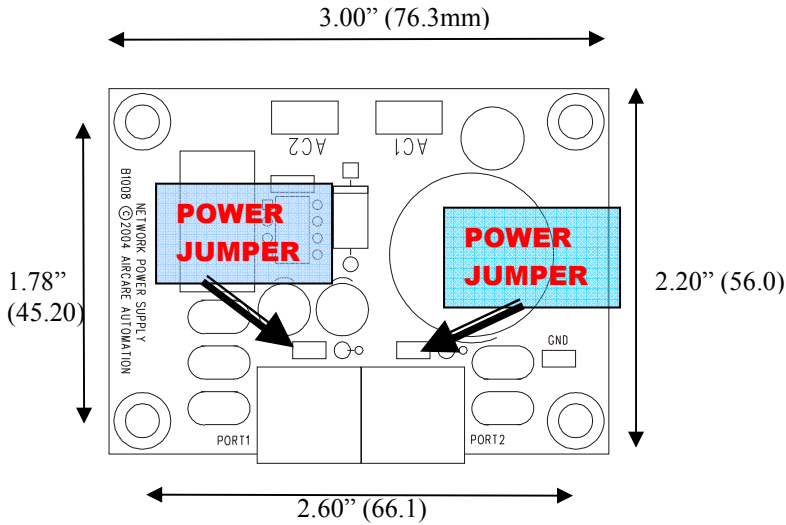
Transformers smaller than 12VA can be used provided that the 1 Amp load is reduced proportionally.

Check the jumpers behind the RJ45 connectors to be sure power is going to the proper cable direction. Remove (flag) the 0.1" jumper by the port you want to disable power (*where there is more than one ACM1008, ensure that each cable segment has only one power source*).

The Green LED on each port connector will illuminate when power is applied. If it does not, check for shorts in the CAT5 cabling and measure the 24VAC input power.

The 0V power connection is normally linked to the mounting posts for grounding. Cut JP3 to isolate the 0V power connection from ground. This may be necessary to eliminate ground-loop currents in some installations where multiple power supplies are used.

Mechanical Dimensions



System Design: Setup for Multiple ACM1008's in a System

Both Power Jumpers are "Closed" to supply power to the ACC1 Console and the 2 ACM1004 Controllers

Power Jumper JP2 has been left open to avoid powering the 2 ACM1004's. JP1 has been left on to power the next chain of ACM1004s

