



Technical Description

The Model VCMS-APM Analog Power Module is a component of the InPower Vehicle Control Module System (VCMS), a modular, expandable, programmable switch panel system used for controlling vehicle 12 volt auxilliary devices. The system can be configured to fit a wide range of applications that require the driver to operate devices such as lights, beacons, fans, compressors, pumps, etc.

The Analog Power Module contains four 12 volt DC power outputs, four digital signal inputs, an internal battery voltage sense, and one analog input for measuring DC current via InPower's DCS35 Series current sensor. Software instructions are available for the application program that allow logical control actions to be taken based on measured values of battery voltage or current. For example, a logic action could take place if the current was above a preset level, or if the battery was being discharged. The battery voltage sense input can be used for shedding loads if the battery voltage indicated a low charge level.

The VCMS-APM Analog Power Module contains a communications interface with a ribbon connector. This interface allows the module to communicate with other power modules and switch modules. As a VCMS configuration may contain more than one power module, each module contain a communication address such as Mod 1, Mod 2, etc. The Analog Power Module has an address of Mod 5.

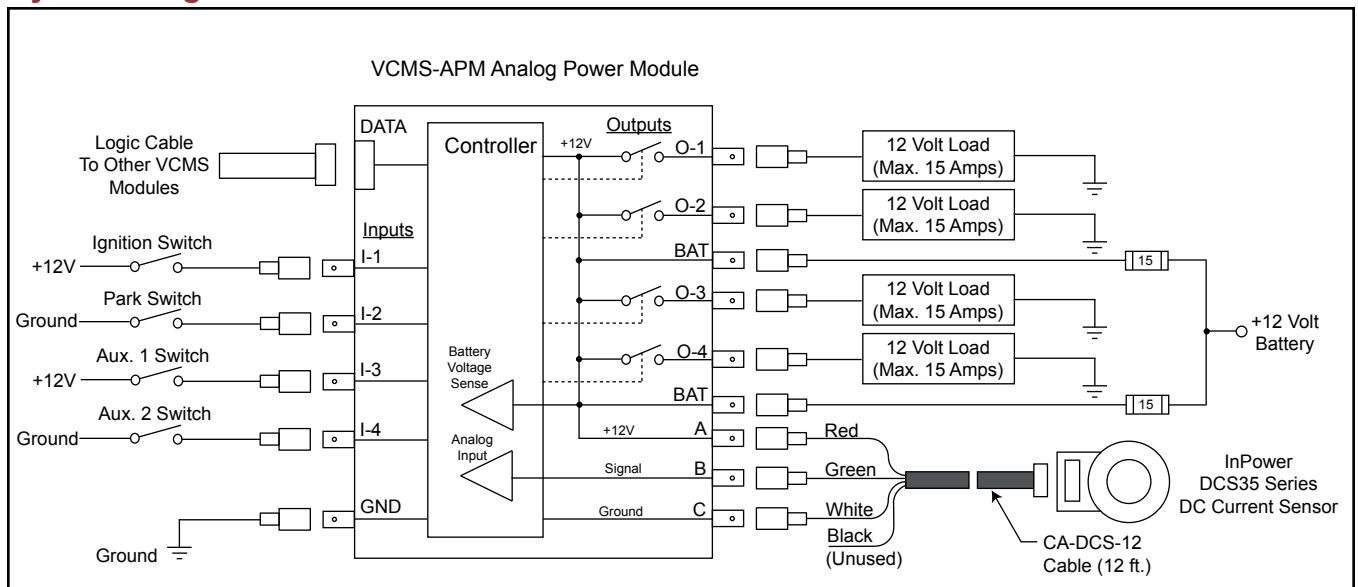
Key Features

- **Small Size and Low Profile**
- **Four 12 Volt 15 Amp Power Outputs**
- **Three Digital Inputs**
- **Analog Current Sensor Input**
- **Battery Voltage Sensing Input**
- **Modular/Expandable Design**
- **Remote Operation**

Ordering Guide

Model	Description
VCMS-APM	Analog Power Module

System Diagram



VCMS-APM Analog Power Module

Specifications

Dimensions: 1.83 inch W x 4.15 inch L x 0.53 inch H
Case Material: Anodized aluminum
Mounting: Mount on flat metal panel, with four #6-32 screws
Connector: 10-position, for ribbon cable plug
Outputs: Four high-side drivers rated at +12 volts @ 15 amps
Inputs: Four, programmable to pull up for ground true actuation or to pull down for +12 volt true actuation (Inputs I-1, I-2, I-3 & I-4).

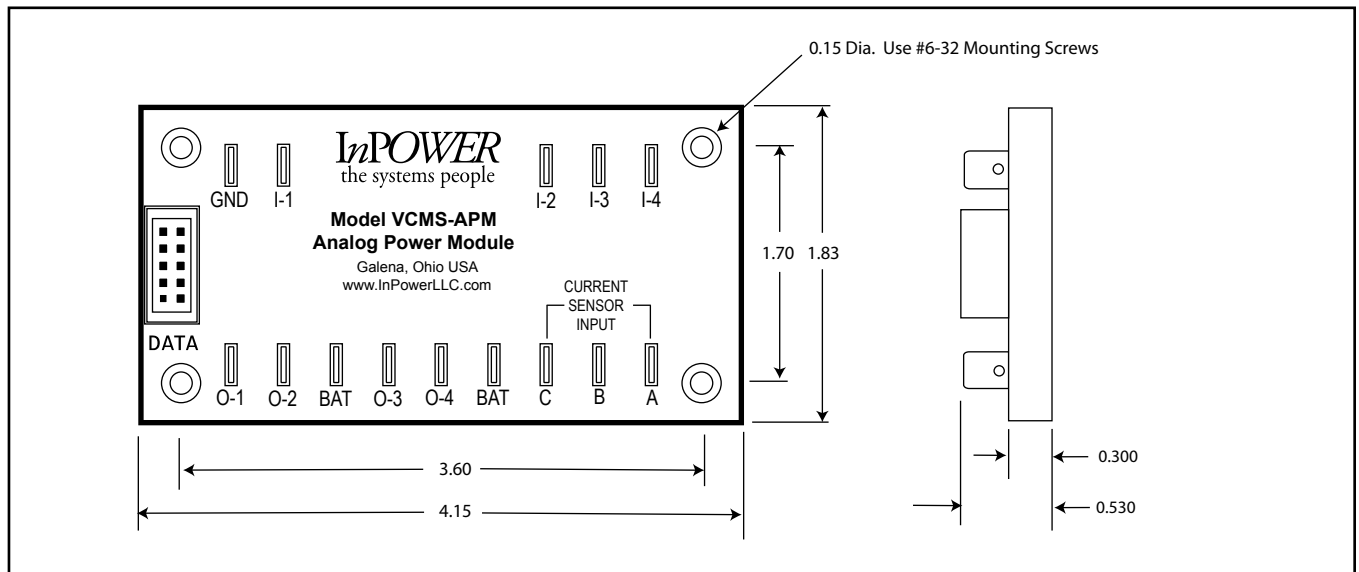
One current sensor input (Terminals A, B & C).

Module Address: Mod 5

Compatible InPower Current Sensors:

Model	Range
DCS35-100-1	±100 amps
DCS35-200-1	±200 amps
DCS35-300-1	±300 amps
DCS35-400-1	±400 amps
DCS35-500-1	±500 amps
DCS35-600-1	±600 amps

Mechanical Drawing



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Offered by:

PDS-97B 091119

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Specifications subject to change without notice.