

POWER PRO

Power Distribution Modules



 ARENS

The future in power management technology.

Arens is a technology based company which designs, develops and manufactures a wide range of technology-driven products for the on and off-highway vehicle market. Today, Arens is not only the recognized world leader in by-wire electronic transmission and drive-train control components and systems, but has expanded its technology-driven design efforts to include the development of hybrid vehicle power electronics systems and a complete line of power distribution modules.

Arens Power Distribution Modules (PDM) incorporate state-of-the-art digital electronics technology.

As today's vehicle designers continue to incorporate smarter digital technologies into the overall vehicle operation, the electrical systems within those vehicles become more complex in terms of power distribution and management. Issues of accessibility and the potential for greater damage from wiring errors have also increased with adaptation of these sophisticated electrical systems. Together, all of this has resulted in increased challenges for the OEM design engineers, along with maintenance issues for owners of these vehicles and the people responsible for servicing them.

Unlike traditional fuse blocks, the Arens Power Pro PDM solves these problems by allowing the installation and operation of multiple electronic accessories through intelligent power distribution and management technology.

All models in the Power Pro series are designed with a unique integrated sealing system to protect the internal components from moisture, dust and other environmental contaminants meeting the IP 67 Ingress Protection requirements.



Power Distribution Modules

The Power Pro PDM is compact in design and mounts easily to any convenient surface either in the interior of the vehicle or in the engine compartment. Access to the interior of the power distribution module can be accomplished by removing four fasteners. Connectors are readily accessible from the front of the unit.

Arens Power Pro PDM features the following:

- Housing is sealed to protect against weather and moisture and meets IP 67 requirements
- Exclusive plug configuration eliminates incorrect connections
- Accommodates up to 200 Amps
- Accommodates multiple I/O configurations
- Forward-facing connections allow for ease of installation
- Expandable to accommodate add-on equipment and aftermarket accessories

Typical Applications for the Arens Power Pro PDM:

- Heavy-Duty Trucks
- Medium-Duty Trucks
- Recreational Vehicles
- Construction Equipment
- Agricultural Equipment





The most advanced power management system available.



Aren's revolutionary Power Pro-W wireless Power Distribution Module (PDM) provides optimum flexibility in power distribution and power management and, it utilizes state-of-the-art wireless interface control technology. Based on the smart Power Pro-S PDM design platform, the Power Pro-W utilizes wireless control technology to allow the operator to activate and control a wide range of specific onboard systems remotely using a handheld device.

Customizable, programmable prioritization.

This feature-rich system allows the operator to program user-specific power management or power prioritization for optimum control of vehicle accessories. As an example, when employed with an RV, this unit allows the user to perform a wide variety of operations from the handheld device while outside the coach. The operator can remotely level the vehicle, extend rooms, extend awnings, control brake lights and much more, all at the touch of a keypad on the wireless device.

Visit www.Arens.com for an interactive tutorial of the Power-Pro W.

Some of the unique design features of the Arens Power Pro-W PDM:

- Industry's first wireless power distribution module
- User-defined load management and prioritization via wireless interface
- Activate vehicle systems via wireless interface
- Real-time display of system status
- Wireless communication protocol
- Reliable – can be programmed for robust communications in difficult environments
- Low power draw – powers up only when transmitting or receiving
- Wireless network reduces vehicle wiring requirement
- Housing is sealed to protect against weather and moisture

Typical Arens Power Pro-W PDM applications:

- Hotel Load Management for Heavy-Duty Trucks
- Hybrid Vehicles
- Recreational Vehicles
- Crash, Fire and Rescue Vehicles
- Fire Trucks
- Tow Trucks



Eliminates searching for keys to unlock storage compartments. Simply press "Unlock Storage" on the key pad.

On-board generator can be started remotely from inside or outside the vehicle.

The Power Pro-W system is controlled by a wireless handheld device which comes with the custom software preloaded and ready to operate. All command and prioritization functions are controlled from the brilliant color touch screen display.



Handheld control module can be programmed to operate area lighting throughout the vehicle.

Leveling of the vehicle has never been easier. Using the handheld controller you can actuate the leveling system from outside the vehicle.



Power Distribution Modules



With all of the physical design advantages of the basic Arens Power Pro Power Distribution Module (PDM), the Arens Power Pro-S adds the ability to actively manage the power distribution to meet the needs of the vehicle electrical system. This “Smart” power management capability provides vehicle designers with greater flexibility resulting in significantly improved vehicle performance.

Some of the unique design features of the Arens Power Pro-S PDM:

- Integrated power management capability
- Housing is sealed to protect against weather and moisture
- CAN communication with flash reprogramming capability
- Outputs include relays, smart relays and high-side drivers
- Current monitoring on all outputs
- Re-settable over-current and short circuit protection
- Fuse status circuit reports the state of all fuses
- Communicates on/off status of FET's regardless of load
- “Wake-up” capability through CAN, IGN or discrete input
- LIN communication optional

Options include:

- USB diagnostic port
- Motor drive H-bridge circuit
- Status indicator LED's
- Remote display

Typical Applications for the Arens Power Pro-S:

- Hotel Load Management for Heavy-Duty Trucks
- Utility Maintenance Vehicles
- Recreational Vehicles
- Crash, Fire and Rescue Vehicles
- Hybrid Vehicles
- Ambulances



Compare the advantages of Power Pro power distribution modules to other traditional power management systems.

Arens' revolutionary Power Pro series of Power Distribution Management (PDM) systems offers vehicle designers a broad array of solutions for managing the increasingly complex on-board power requirements. The Power Pro series is designed to provide the right degree of power management for a wide variety of applications from basic to complex vehicle-wide integrated power systems.

The Power Pro series of PDMs is the latest example of how Arens is developing new technology-rich solutions to solve a wide range of challenges faced by today's vehicle designers and manufacturers.

	Power Pro	Power Pro-S	Power Pro-W	Comp A	Comp B	Comp C
Industry standard connectors	X	X	X			
Forward-facing connectors	X	X	X		X	
Sealed to IP 67	X	X	X			
Custom circuit layout	X	X	X	X	X	X
Solid state relays		X	X			
Current monitoring capability		X	X			
Current limiting		X	X			
Communication of circuit state		X	X			X
Prioritization capability		X	X			
User programmable prioritization capability			X			
Wireless circuit activation			X			



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