

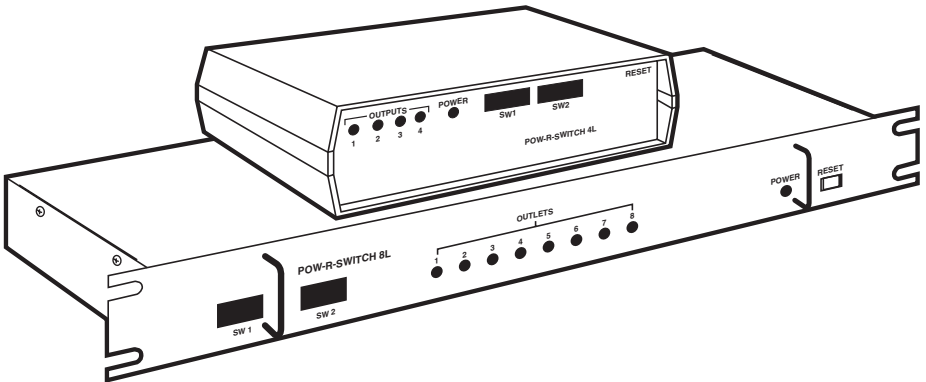


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Pow-R-Switches 4L and 8L



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**FEDERAL COMMUNICATIONS COMMISSION
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This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

NORMAS OFICIALES MEXICANAS (NOM) ELECTRICAL SAFETY STATEMENT**INSTRUCCIONES DE SEGURIDAD**

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.

12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

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1. Specifications

Compliance —	All models: FCC Class A, IC Class/classe A; SWI035AE, SWI036AE: CE (models having IEC power connectors)
Interface —	All voltages over the range of RS-232
Protocol —	Asynchronous
Data Format —	RTS and/or DTR
Flow Control —	Transparent to signals through I/O ports
Maximum Distance —	From DB9 connectors to attached devices: 50 feet (15.2 m)
User Controls —	DIP switch for Mode selection
Indicators —	(5) or (9) front-mounted LEDs: (1) Power, (4) or (8) Output Status
Connectors —	All models: (2) DB9 female connectors (pass-through); SWI035A, SWI036A: (4) or (8) NEMA 5-15R power outlets; SWI035AE, SWI036AE: (4) or (8) IEC320 power outlets
Leads/Signals Supported —	All of the leads on the DB9 connectors
Temperature Tolerance —	32 to 104°F (0 to 40°C)

Humidity Tolerance —	10 to 90%, noncondensing
Power —	Control circuits input through wallmount 5-VDC supply (included); Output: Up to 8 amps per output and up to 8 amps aggregate total; 15 amps available on special order
Size —	SWI035A, SWI035AE: 2.8"H x 8"W x 6.3"D (7.1 x 20.3 x 16 cm); SWI036A, SWI036AE: 1.8"H x 19"W x 8"D (4.6 x 48.3 x 20.3 cm)
Weight —	SWI035A, SWI035AE: 3 lb. (1.4 kg); SWI036A, SWI036AE: 6.5 lb. (3 kg)

2. Introduction

The Pow-R-Switches are AC power switches having multiple outputs and RS-232 control inputs. The Lead-Controlled Pow-R-Switch turns power ON or OFF from a remote location via RTS and/or DTR signals. These Switches provide pass-through connectors for easy insertion into a data line.

Pow-R-Switches can be daisy-chained via the pass-through ports. Tx and Rx signals are electronically repeated; other signals are passed through directly.

Table 2-1. Available Models

Code	Name	Type of AC Connector
SWI035A	Pow-R-Switch 4L	(2) DB9 female, (4) NEMA 5-15R power outlets
SWI035AE	Pow-R-Switch 4L (IEC)	(2) DB9 female, (4) IEC320 power outlets
SWI036A	Pow-R-Switch 8L	(2) DB9 female, (8) NEMA 5-15R power outlets
SWI036AE	Pow-R-Switch 8L (IEC)	(2) DB9 female, (8) IEC320 power outlets

3. Installation

IMPORTANT!

Before attaching any cables or power plugs, make sure that the power is OFF on all equipment, including the Pow-R-Switch.

3.1 Cabling to the Switch

Cables with DB9 male connectors are required. The cables must be wired straight through and pinned for an AT® style 9-pin serial port.

3.2 Cable Length

RS-232 data cables are typically limited to distances of 50 feet (15.2 m) or less at 19.2 Kbps. Extended distance cables are available to increase this distance. Actual installed length will depend on the interface, cable type, and data rate.

3.3 Power Connection

Plug the adapter into the Pow-R-Switch. Plug the AC end into a stable source of 115-volt, 60-Hz power (or 230-volt, 50-Hz power for SWI035AE and SWI036AE). Add AC connections to the output ports. Connect the power input cable to the main AC supply.

3.4 Power Control

Select the mode of control by using the DIP switch mounted at the front of the unit. Then you'll turn the power ON by raising the signal of the control lead or leads you selected (RTS and/or DTR). Turn the power OFF by dropping the selected control signal(s).

- Mode 1: When RTS (pin 7) is present, all relays are ON.
 When RTS (pin 7) is not present, all relays are OFF.
 DTR (pin 4) is not used.
- Mode 2: When DTR (pin 4) is present, all relays are ON.
 When DTR (pin 4) is not present, all relays are OFF.
 RTS (pin 7) is not used.
- Mode 3: When RTS (pin 7) and DTR (pin 4) are both present, all
 relays are ON.
 When RTS (pin 7) and DTR (pin 4) are not both present,
 all relays are OFF.
- Mode 4: When DTR (pin 4) is present, relays 1 through 4 are ON.
 When DTR (pin 4) is not present, relays 1 through 4 are
 OFF.
 When RTS (pin 7) is present, relays 5 through 8 are ON.
 When RTS (pin 7) is not present, relays 5 through 8 are OFF.

Table 3-1. Mode of Operation

FUNCTION	DIP-SWITCH POSITION							
	1	2	3	4	5	6	7	8
Mode of Operation								
1: RTS	OFF	OFF						
2: DTR	ON	OFF						
3: RTS and DTR	OFF	ON						
4: Split	ON	ON						
Reserved for Future Use			OFF	OFF	OFF	OFF	OFF	OFF

Table 3-2. DB9 Pinout

- 1 = DCD
- 2 = RX
- 3 = TX
- 4 = DTR
- 5 = SG
- 6 = DSR
- 7 = RTS
- 8 = CTS
- 9 = RI

Note that the DB9 connector is transparent to all control signals (pinned straight through).