



## Tone Controlled Power Strip With MultiPAL Voice Response

Model MP-415

### QUICK START

- 1) Plug a phone line into the jack marked LINE
- 2) Plug the A/C line cord into an outlet.
- 3) Connect any A/C powered devices into the outlets on the MP8-415A-R1.

**The maximum current rating for all of the devices connected to the MP8-415A-R1 cannot add up to more than 15 Amps.**

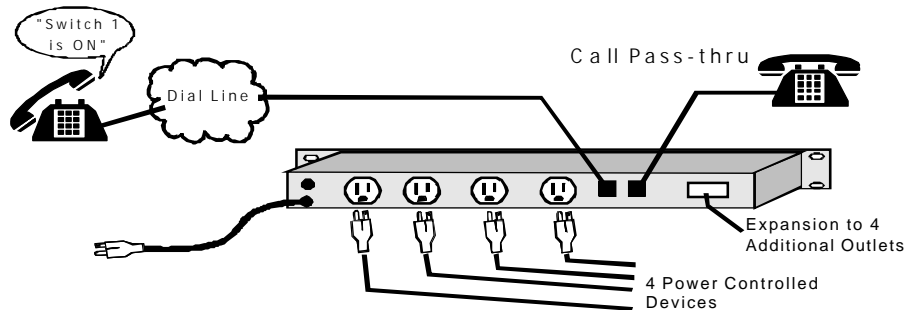
- 4) Call the phone number connected to the unit. The switch will answer with "PAL READY"
- 5) Enter '1' The MP8-415A-R1 will respond with '1 On'
- 6) Enter '#' Outlet 1 will turn off and the MP8-415A-R1 will respond with '1 Off'
- 7) Repeat steps 5 and 6, entering 1 - 4 for the desired outlet.
- 8) Hang up when finished
- 9) Read the rest of the manual. There are many more features and options.

### GENERAL DESCRIPTION

The MultiPAL Remote Controlled Power Strip, model MP8-415A-R1 (herein referred to as MP8) allows an operator with a tone dial telephone to access, interrogate and control four A/C power outlets. Each of the four outlets on the MP-8 can be independently turned on, off or pulsed for power-on reset.

The unique MultiPAL controller allows the switch to be placed in series with any normal telephony device (phone, fax, modem, etc.). Normal calls can pass transparently through MP8; only when you enter a DTMF (touch tone) code, will the MP8 respond and allow switch control.

To operate the MP8, place a telephone call to the dial line connected to the unit. The MP8 provides three call answer modes and several security options. When the call is validated, MP8 will read off the current status of the switch and then prompt the caller to change the switch position. When a change is made, the new status is repeated and additional changes can be made. When no more changes are required, the caller can hang-up, or send an additional code to access any extension device connected to the MP8.



REF: PWR/MP-415\_V971104E.DOC

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## PROGRAMMING

### *Understanding MP8's Many Operational Features*

All user programmable settings are made prior to placing MP8 in service using a standard tone dial telephone connected to MP8's extension port (EXT). These settings are stored in non-volatile memory and will not be lost when power is removed. To enter the programming mode; disconnect the telephone line, and connect a standard tone dial telephone to the extension jack (EXT). Lift the receiver and MP8 will prompt "PAL Ready". Now press the # key twice and MP8 will respond with "Program". MP8 is now ready and eager to be programmed. When a correct program entry is made, MP8 responds "OK", if an error is made on entry, MP8 responds "Error"

Many of Multi-Pal's features have been pre-programmed at the factory. These can be changed by following the instruction below and referring to the programming summary on page 4.

### **MP8's Security Modes**

MP8 can be set to respond to calls with or without the caller entering a preset security code to gain access to the control functions or ringing to the extension. MP8 can be set to require a security code for control functions only (type 1) or (type 2) security for both control and access to ring to the extension. Type 0 is no security code required. These features are explained for each of the Call Answer Modes listed below. In the Answer and Prompt mode, if a code is required and the wrong code is sent, MP8 will respond "Error".

### **Call Answer Modes**

MP8 has three ways to answer incoming calls. The mode selected will depend on what you want the caller to hear and how secure you want the system to be. In all cases, the number of rings before MP8 answers the call, security codes required for MP8 to accept operating commands, and how the call is passed on to the Extension Port, can all be selected prior to use.

### **Normal Answer Mode, Ring Back**

In this mode, MP8 will answer the call and generate a normal ringback signal. This signal sounds like the one you hear when the phone company is ringing any phone. A standard ringback cycle consists of 2 sec. of ring tone followed by 4 sec. of quiet. During the quiet times, between each 2 sec. ring, MP8 listens for tone digits (DTMF) sent by the caller. If, after two ringback cycles, (12 sec.) no valid tones are heard, MP8 will ring the Extension Port.

**Use the Normal Answer Mode if:** Voice or Fax calls are being made to the device on MP8's Extension Port and you don't want the caller to know that MP8 is there.

If no security code is required, entering any tone digit during the two quiet times will wake MP8 up. Wait for MP8 to respond "PAL Ready" before entering operating commands, see page 5. If MP8 is set for security on control only, type 1, the code may be entered during any of the quiet times to gain access to MP8's control functions. If the correct code is entered, wait for MP8 to respond "PAL Ready" before entering operating codes. If the wrong code or no code is entered, MP8 will ring to the extension. If MP8 is set for control and ringing to the extension security, type 2, if the wrong code, or no code is entered, the call will be terminated, dropped by MP8.

After placing MP8 in the programming mode, (##) enter 6 plus 0 followed by the '\*' key to set MP8 in the Ring Back mode.

### **Answer and Prompt Mode (factory default)**

MP8 answers the call and issues a voice prompt *"PAL Ready"* if no security code is required, or if security is required, a voice prompt *"Enter Code"* is sent. The caller may now enter the security code or any control digit if no security code is required. If no control tones are received in 6 seconds, MP8 will ring the Extension when no security code is required.

**Use the Answer and Prompt Mode if:** you want to know exactly when to enter security and control codes.

If MP8 is set for security on control only, type 1, the code may be entered when prompted to gain access to MP8's control functions. If the correct code is entered, MP8 will respond *"PAL Ready"*. If the wrong code is entered, MP8 responds *"Error"* and the sender may try once more before the extension is rung. If MP8 is set for control and ringing to the extension security type 2, if the wrong code is entered twice, or no code is entered, the call will be terminated, dropped by MP8. In the program mode to set MP8 for the Answer and Prompt mode, enter 6 plus 1 followed by '\*' key.

### **Answer And Quiet Mode**

MP8 will answer the call and be quiet for six seconds, waiting for control codes. If none are received within 6 seconds, MP8 will ring the Extension.

**Use the Answer and Quiet Mode if:** You want more secure control of power and the shortest time before the extension is rung.

If MP8 is set for security on control only, type 1, the code may be entered during the 6 sec quiet time to gain access to MP8's control functions. If the correct code is entered, MP8 will respond *"PAL Ready"*. If the wrong code is entered, MP8 does not respond, and the extension will be rung. If MP8 is set for control and ringing to the extension security, type 2, if the wrong code is entered, or no code is entered, the call will be terminated, dropped by MP8. With the right code, MP8 answers *"PAL Ready"*. To program MP8 for the Answer and Quiet mode, enter 6 plus 2 followed the '\*' key.

### ***Number of Rings before MP8 Answers the Call (Default = 2)***

MP8 can be set to answer calls after it detects a set number of rings from 1-6. To program the number of rings, enter 2 followed by the desired number, followed by the '\*'. Example . To have MP8 answer in 4 rings, in the program mode, enter 2 4 '\*'. MP8 responds *"OK"* if the entry was accepted, *"Error"* if not.

### ***Number of Rings to the Extension (Default = 4)***

MP8 can be set to ring the extension a number of times before the call is terminated. Enter 7 plus the desired number, 1-6 followed by the '\*'. Example : 7 4 '\*'. Will ring extension four times.

### ***Security Mode (Default = no security)***

The security modes are set by entering 5 plus 0, 1, or 2 '\*'. 0 = no security, 1 for control only, and 2 for security for all functions, control and extension ring.

Example: to set for security on control only. Enter 5 1 '\*'.

### ***Setting a Security Code (Default = none set)***

To program a security code, enter the '#' key followed by up to six number characters, followed by the '\*' key. Example; to set a security code of 3451, enter #3451 '\*'. MP8 responds *OK* if entry is accepted or *Error* if not.

**Reset Time (Default = 10 seconds)**

The MP8 can provide power-on reset with a pre-set power off time. This time can be set to turn the power off 5 to 45 sec. in 5 sec. increments. Example: to set for 15 sec. enter 9 plus 3 ‘\*’. (3x5=15sec.)

**Number of Active Ports (Default = 8)**

The MP8 has four controllable outlets. An additional four can be controlled using the K-415A-R1 expansion unit. When all eight outlets are not being used, change this setting can to limit the voice status response to those that are active. To set the number of active ports, enter ‘1’ plus the number of active ports (1-8) ‘\*’.. Example: to set the first 3 ports 1-3 as active, enter 13‘\*’.

**MULTIPAL PROGRAMMING SUMMARY**

Feature	Enter	Options & MP8’s Response Prompts
Lift receiver on Extension with no phone line connected		“PAL Ready “
To Enter Programming Mode	##	“Program”
Answer Mode	6 n ★	0= Normal Answer, Ringback 1= Answer & Prompt (Default) 2= Answer & Quiet
MP8 Answers Call on # of Rings	2 n ★	n = Number of Rings, 1-6 (Default = 2)
MP8 Rings to the Extension	7 n ★	n = Number of Rings, 1-6 (Default = 4)
Security Type Select	5 n ★	0= Security Off (Default) 1= Security for Control functions Only. 2= Full Security, control & extension ring.
Security Code	# n... ★	n... = up to six digits. Example: for Security Code 123 enter #123*
Reset Time ( Power, Switch Reset)	9 n ★	n = 1 - 9 five second increments Default Example 92* sets pulse to 10 Sec.
Active Ports	1 n ★	n= number of active or in use ports. Example: three active, enter 13*

n =The Number to Enter. ★ = end of this program instruction

When each full programming command is entered correctly and accepted by MP8, MP8 will respond “OK” if accepted or “ERROR” if not accepted. If an error is made, the program step may be repeated.

Example: To program the number of rings (from 1 to 6) before MP8 answers a call. In the programming mode, enter the digit 2 followed by the desired number of rings, followed by the ★ to end this program instruction. ( 2 + 3 + ★) will program MP8 to answer in three rings. MP8 will respond “OK”.

## MULTIPAL OPERATING COMMANDS

After MP8 has answered a call, and depending on the answer and security mode previously selected, the following commands may be entered to operate MP8.

### 1- 8 Report Status of an Outlet

MP8 will report 'ON' or 'OFF' as indicated by the current outlet status. MP8 will also report 'ERROR' if the controller cannot set the switch into the desired position. Once an outlet is selected, it can then be changed by entering a # or ★ to toggle or pulse.

### # Change Status of an Outlet

MP8 will toggle the currently selected (or all if 9 is used) outlet and report the new status.

### ★ Reset an Outlet

The MP8 will pulse the outlet for the number of seconds determined by the Reset Time setting

### 9 Report Status of All Outlets

MP8 will read off the status of all outlets. The number of outlets reported is controlled by the Active Ports setting.

### 91 Turn All Outlets On

MP8 will turn all active outlets On, then read off the status of all outlets.

### 92 Turn All Outlets Off

MP8 will turn all active outlets Off, then read off the status of all outlets.

### 0 Ring Extension

MP8 will ring the EXT port. No additional switch commands will be accepted by MP8

Example:	<u>You Send</u>	<u>MP8 Does This</u>	<u>MP8 Says This</u>
	1		" 1 ON "
	#	Turn off Outlet 1	" 1 OFF "
	3		" 3 ON "
	★	Turn Off Outlet 3	" 3 OFF Reset "
		Wait (Reset Time)	
		Turn On Outlet 3	" 3 ON Reset "
	91	Turn On All Outlets	" 1 On, 2 On....."

**Indicators**

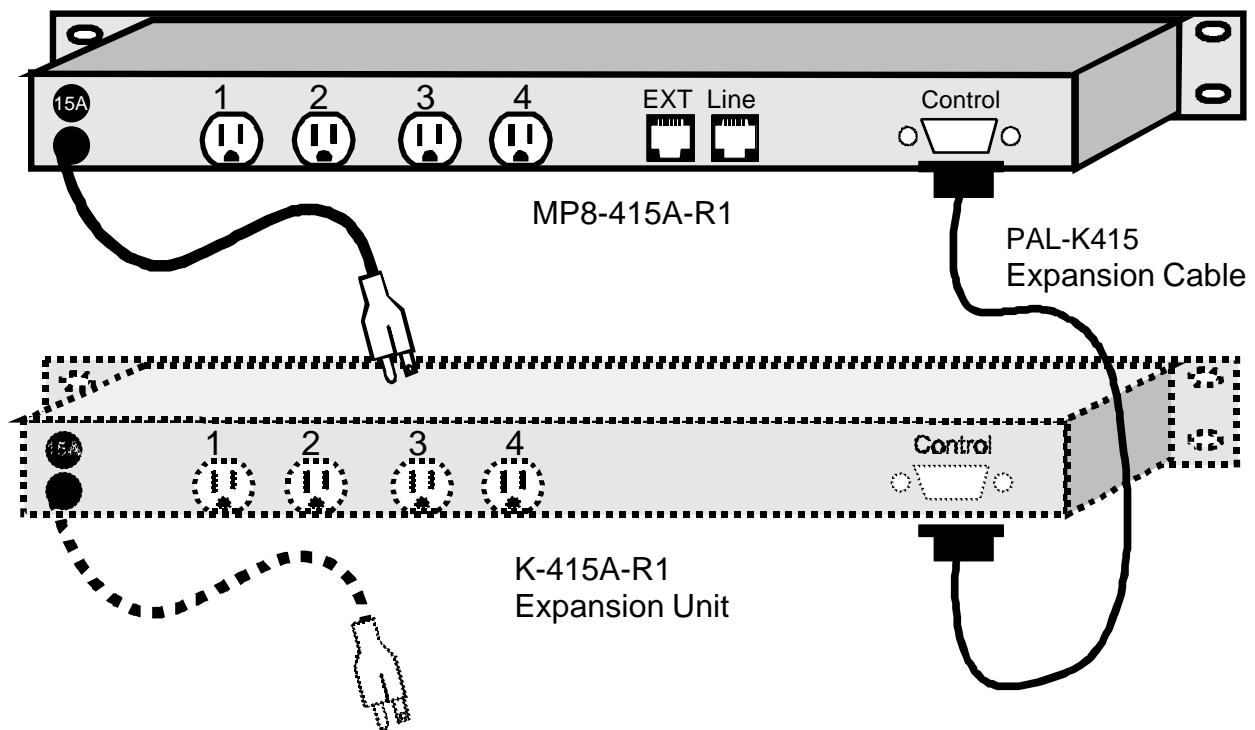
The K-415 provides 5 indicator lamps.

POWER : Indicates that A/C power is applied to the K-415  
 1-4 Indicates which of the four outlets is ON

**Positive Feedback**

MP8 monitors the status of the outlets and reports its actual status. If the status detected does not match the command given over the phone, MP8 will report an 'ERROR'. An error will also be reported when obtaining status of outlets 5-8 if no expansion unit is installed. To correct this, change the setting for the number of active ports to 4.

**CONNECTIONS TO MP-415A-R1**



**Input** Standard NEMA 5-15 Plug on 6 foot 14/3 line cord - 120VAC

**Outputs 1-4** Standard NEMA 5-15 Receptacle. 15 Amps per Receptacle

**Line:** Connect the Telephone Line

**EXT:** Connect any telephone device (optional)

**Control** Expansion for K-415A-R1 for Switched Outlets 5-8

This connection provides expansion of circuits 5-8 to Dataprobe's K-415A-R1 four outlet power strip. Use cable # PAL-K415, supplied with the K-415A-R1. For connection to other devices, consult Dataprobe.

## TECHNICAL SUPPORT, RETURNS & WARRANTY

Dataprobe Technical Support is available 8:30AM to 5:30PM ET to assist you in the installation and operation of this product. To obtain Technical Support call our Tech Support Hotline at 201-967-8788, or Email us at tech@dataprobe.com. Please have the following information available when you call:

- Model of Product
- Serial Number
- Date of Purchase
- Name of Seller (if other than Dataprobe)

If you purchased this product through an **Authorized Dataprobe Reseller**, you should contact them first, as they may have information about the application that can more quickly answer your questions.

### WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of One Year from the date of initial purchase. If the product should prove defective within that period, Seller will repair or replace the product, at its sole discretion.

Service under this Warranty is obtained by shipping the product (with all charges prepaid) to the address below. Seller will pay return shipping charges. Call Dataprobe Technical Service at (201) 967-8788 to receive a Return Materials Authorization (RMA) Number prior to sending any equipment back for repair. Include all cables, power supplies and proof of purchase with shipment.

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