



COWLACIOUS DESIGNS By Computer & Electronic Services

CAUTION!

Avoid Possible Safety Hazards!

- Please read the entire manual before attempting to use this device.
- When this device is connected to an AC outlet, some output terminal screws and output connections could shock you.
- When using AC voltage, always use a three-prong connection! Make sure your outlet is properly polarized or damage could occur to the unit and possibly the user.
- Do not use the VARI-PET in wet locations.
- This device is not recommended for outdoor locations unless it is properly protected.

Always unplug power to the VARI-PET before adjusting any of the terminal screws or making connections!

Introduction:

Congratulations on choosing one of the most versatile effect controllers on the market. The Programmable Effect Timer (VARI-PET) has been designed to meet the needs of the professional haunter at a cost that is appealing to the home haunter.

Please take the time to familiarize yourself with this manual. You will find that it can help you in achieving the most from this product and the effect (prop) that you desire to control.

The VARI-PET has many features that make it unique in the marketplace and it provides the user with many different set-up options. This unit is capable of the following types of settings:

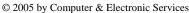
- **Timer Interval Setting** Allows the user to choose the time interval used for the On-Time and Off-Time settings. The choices are: 1, ½, ¼, 1/8, 1/16 seconds.
- Initial Delay Setting. This allows you to set some time between when the VARI-PET is triggered and when you want the effect to actually operate. This may be used when the location of the triggering device cannot be placed right where you want it to be triggered. The VARI-PET will not be able to be retriggered during this time.
- **On-Time Settings**—Up to 60 On Times can be programmed in either 1, ½, ¼, 1/8, 1/16 second resolution. This is the time that the effect will actually operate. The VARI-PET will not be able to be retriggered during this time.

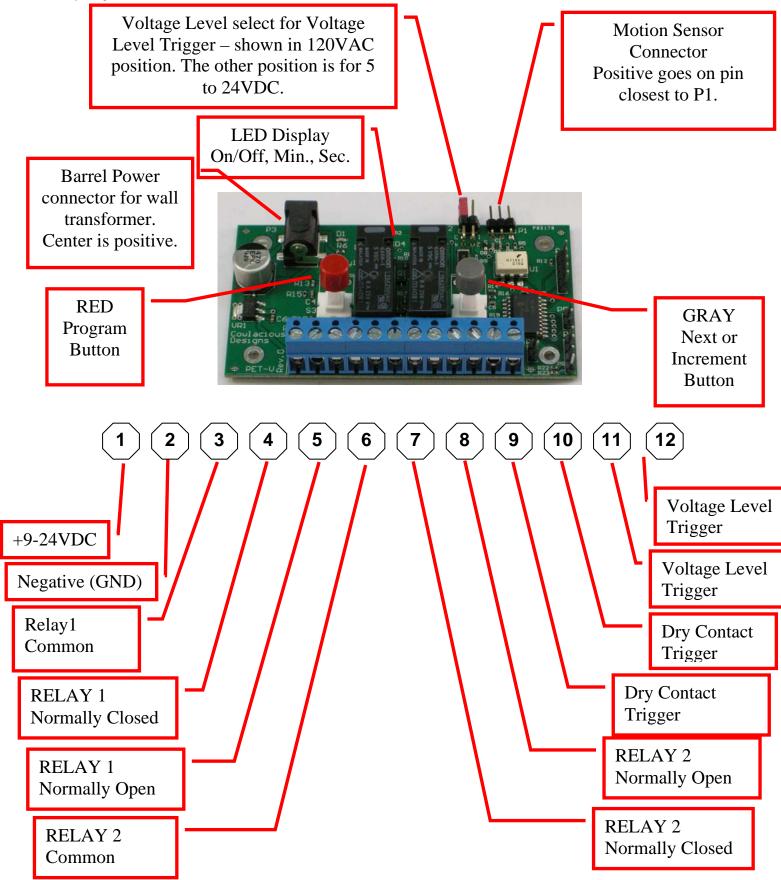
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- **Off-Time Setting**—Up to 60 Off Times can be programmed in 1, ½, ¼, 1/8, 1/16 second resolution (Note: The resolution is the same for both On and Off times). This is the time you would like the unit to remain off and not be able to be retriggered by someone. This prevents people from repeatedly activating the effect, one time after another.
- **Repeat Setting.** This function allows you to set how many times the effect will repeat the above On-Time and Off-Time settings after the Initial Delay Setting--every time the VARI-PET is triggered.
- **Final Off-Time**—both in ½ second and/or minute intervals. This is the time you would like the unit to remain off and not be able to be retriggered by someone. This setting essentially takes place of the final Off-Time setting when used with the Repeat Setting.

Its features include:

- Automatic Self Retriggerable operation. If you do not want to hook the device up to something to trigger it, you can hook it up so that it automatically continues to retrigger itself. It will go through any and all of the above settings and then start over, just as if someone had triggered it again.
- Multiple units can be hooked up to the same triggering device to provide more complicated animation of your props.
- It never loses it programmed time settings even when the power is unplugged.
- It takes only a few seconds to program the times and settings you want to use.
- You can have one device hooked up to the normally closed contacts and another hooked up to the normally open contacts of each relay. When the VARI-PET is triggered it will turn off the device(s) connected to the normally closed contacts and turn on the device(s) connected to the normally contacts and vice-versa.
- The relay contacts can be used to switch AC or DC devices. It is important to use the optional diode(s) whenever the relay contacts are used to switch DC solenoids, valves, or motors. Please see the Sample Connection Digram.
- The VARI-PET can be powered by a 6VDC battery pack (included) or you can use a DC power supply (not included) or wall adapter (not included) in the range of 9-24VDC to power it off the AC line. We recommend using a supply with at least 300mA of current, though a 500mA supply is recommended.





Operation

This unit comes pre-programmed with the following settings:

- 1 seconds initial delay
- 3 varied On times
- 3 varied Off times
- 0 Repeat

To use these setting just apply power to the VARI-PET. You will see the timer go through its initialization stage where all the LED's turn on, then off, then on and then off again (the LED's will flash twice) – the circuit is then operational. Plug in the VARI-PET to an AC outlet. Plug the device that you want to control into the VARI-PET's AC outlet. You can test the VARI-PETs operation by pressing the GRAY button. The GRAY button is internally connected to the same place as you connect the triggering device (i.e. switch, step pad, IR detector's relay, and etc.), so pressing it is just like having one of those devices activate it.

LED Display	What you will see when you press the GRAY button with the above time settings.
♦ □ □	The ON/OFF LED will flash for each ½ second of delay time that was set. In this case two times. During this time the unit cannot be retriggered.
✤ □ ♣♣ □ □	Next, you will see the Seconds LED start flashing on and off. It will flash very quickly as it goes through the three various On/Off Times. The ON/OFF LED will remain on indicating that it is counting down a time in the ON/OFF state. During this time the unit cannot be retriggered.
	Finally, all the LED's will turn off indicating that the unit is ready to be triggered and go through the whole routine all over again.

Programming

If you want to make your own custom times for DELAY, ON-TIME, OFF-TIME, REPEAT, and FINAL OFF-TIME, then follow the steps below. Although the steps to programming the VARI-PET may look a little daunting to the inexperienced user, after going through the programming routine once or twice it will become very easy and familiar to you.

Note: When pressing the GRAY button to increment the SECONDS or MINUTES, if you hold the button down it will start to increment the count automatically (flashing the appropriate LED for each increment) until you release the button. Using this method will help you to quickly program in large values.

Brief Programming Instructions:

Hold down the program button until all three LED lights begin flashing to put it into program mode.

The LED lights will continue if the program button is held down. Release the program button

Choose the timing resolution for the ON/OFF times by pressing the GRAY button:

- $\Box \Box \Leftrightarrow$ 1 second (default) (0 = LED on & X = LED off)
- □ ***** □ 1/2 second
- ♣ □ □ 1/4 second
- 🟶 🟶 🗆 1/8 second
- 🛭 🗢 🗢 1/16 second

Press the red button to go to delay settings

The lights will blink twice

Set the delay by pressing the green button 1 time for each 1/2 second of delay that you want, if any. Press the RED button when you are done setting the delay or if you don't want a delay.

You are now in the real-time programming mode. Every time that you press the GRAY button it will begin a new ON time. Every time you release the GRAY button it will begin a new OFF time. Up to 60 ON times and 60 OFF times.

When you are done programming ON/OFF times, press the red button.

You are now in the repeat mode. Press the GRAY button once for each time you would like your above ON/OFF times to repeat.

Press the RED button when you are done programming the Repeat number or if you don't want it to go through the routine more than once.

You are now in the final OFF seconds time setting. Press the GRAY button once for each off second off final off time.

Press the red button to go to the final OFF minutes setting. Press the GRAY button once for each minute of off time desired. When finished press the red button.

All the lights will blink twice.

The unit is now ready to use.

Detailed Programming Instructions

LED	PROGRAMMING INSTRUCTIONS
Display	
	Initiating PROGRAM MODE Apply power to the timer. Wait for all the lights to flash twice and turn off. Press and hold the RED button until all the LED's begin flashing simultaneously. If you continue to hold down the RED button then they will continue to flash about once a half second. At this point release the RED button. You will then be ready to begin programming and will be in the On/Off Time Interval Mode.
⇔ □ □	On/Off Time Interval Mode Press the increment button to choose which time interval you would like to use for the On/Off Seconds Time Settings. Each press of the increment (GRAY) button will take you to the next timing option and change the LED display as follows:
	 I second increments Press the RED button when finished to continue to the Delay Setting Mode programming stage. You will see the three LED's simultaneously flash twice. You will then be in the Delay Setting Mode.
* 🗆 🗆	DELAY SETTING MODE The On/Off Time LED will turn on.
	If you wish to set an Initial Delay time, press the GRAY button. For each press of the GRAY button the ON/OFF LED will turn off briefly, □ □. Each press of the GRAY button adds a ½ second delay. Press the RED button when finished to continue to the SECONDS-ON programming stage. OR Press the RED button to continue to the next programming stage (SECONDS-ON), if no initial DELAY is desired.

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	FINAL MINUTES-OFF PROGRAMMING MODE The Minutes LED will be the only one illuminated.
	You should now be in the MINUTES-OFF programming stage. This sets how many minutes your prop will be off after it goes through its cycle(s). Press the GRAY button for each minute of OFF-Time that is desired. The Minutes LED will turn off briefly, □ □, with each accepted press.
	Press the RED button to finish programming the VARI-PET.
	OR
	Press the RED button to continue to finish programming the VARI-PET.
* * *	FINAL STAGE OF PROGRAMMING
	The unit will simultaneously flash all the LEDs twice (blink twice) to indicate that all the programming stages have been completed and the unit is now ready for operation.
* * *	
	TESTING YOUR PROGRAM
	Press the GRAY button to trigger the VARI-PET. You should see
	the LEDs go through all the time settings that have just been programmed. You will probably also hear the relays click on and off as it goes through the On-Time(s) and Off-Time(s).

Hints & Troubleshooting:

Hints:

Troubleshooting:

• **Problem:** The VARI-PET has been programmed and appears to be running the program, but the relay doesn't engage to turn on my effect.

Solution: First try disconnecting the battery pack and reconnecting it to make sure you have a good connection. (Note: To ensure your safety, unplug the VARI-PET if it is currently plugged in.) If that doesn't work, try a new set of batteries.

• **Problem:** The Vari-PET seems to be causing other timers to trigger whenever it goes off. I am switching a DC device with this Vari-PET

Solution: Please see the sample connection diagram and properly attach the supplied diode as shown.

Features:

- Safe DC Operation.
- Direct access to Relay Contacts, two Normally Open and two Normally Closed, via terminals rated up to 250VAC & 28VDC @ 8 Amps.
- Easily programmable timing settings.
- Keeps program settings even when power has been disconnected.
- Initial delay from 0 to 255, ¹/₂ seconds intervals.
- Up to 60 Variable On Times.
- Up to 60 Variable Off Times.
- Repeat the above timings up to 255 times without having to be retriggered.
- Delay after the repeat cycle is finished (unit cannot be retriggered during this time).
- Device can be set to retrigger itself for repeated automatic operation of effects.
- Only use the timing setting that you need.

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