

EAGLE MODEL 1500

Programmable Timer

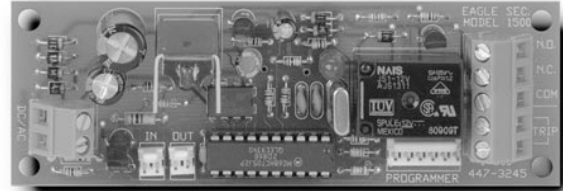


One Timer Does It All!

The EAGLE Model 1500 Programmable Relay Timer offers all the traditional timer functions plus unique features that add enormous versatility to the unit. The unit features two inter-dependent inputs, a 10-amp relay output (SPDT), an open collector transistor output offering an infinite array of timer application possibilities. An on-board LED indicates when the relay is active. AC or DC operation allows the timer to stand alone or work with an alarm panel. It's slim, 1½ inch width, allows the unit to fit into most door jams. Programming is simple, utilizing a standard touch tone phone or serviceman's test set.

Activation of the primary trip input can be programmed to occur on the leading or falling edge of the activation. The Model 1500's operation is unique as the relay can be programmed to respond in a multitude of ways to the activation of the trip inputs. A sample of different programming modes includes:

- Momentary relay activation. Ex. Exit-entry delay or door strike control.
- Alternate relay activation/de-activation. Ex. Remote power switch.
- Momentary relay activation with relay RESET from the Secondary trip input. (Door strike control with immediate strike release).
- Timed delay before momentary relay activation with separate programmable momentary relay activation time.
- Timed delay before relay activation with input follower. Relay follows the Main trip input after a timed delay. Secondary (open collector transistor) output activates 30 seconds before the timed delay expires which allows the use of an 8 ohm speaker to alert user. (Overhead garage door by-pass).
- Timed delay before relay activation with delay RESET from the Secondary trip input. Secondary (open collector transistor) output activates 30 minutes before the timed delay expires which allows the use of a PZT to alert user. (No activity timer).
- Open collector output can be programmed to drive an 8 ohm speaker or an additional relay with programmable delay and activation times.
- Generates a recurring trip after programmed period of time, with initial offset. (test signal generator)
- Two independent timers with two outputs following primary input after timers complete independent cycles.



FEATURES

- ◆ Normally open and/or closed 10 Amp relay output.
- ◆ Two activation inputs.
- ◆ One open collector transistor output.
- ◆ Fifteen (and growing) modes of operation.
- ◆ Status LED.
- ◆ Programmable modes of operation.
- ◆ Output depends upon input.
- ◆ Small footprint.
- ◆ Programmable time delay. 250ms to 99 days.
- ◆ Primary trip input on leading or falling edge.
- ◆ Relay activation: 10ms to 99 hours.
- ◆ Secondary output programmable as driver for a speaker or relay.
- ◆ AC or DC operation
- ◆ Initial start offset
- ◆ 0.012% accuracy

APPLICATIONS

- ◆ Overhead garage door bypass (offers open status)
- ◆ Door strike control
- ◆ Remote power switch
- ◆ Exit-entry delay
- ◆ Convenience store back door bypass
- ◆ Daily, weekly or monthly test signal generation
- ◆ In-activity alarm
- ◆ 'And' function to perform 'dual technology' sensing

SPECIFICATIONS

Dimensions: 1.50" x 4.65" x 1"
Power: Voltage: 12 to 24 VDC or 12 to 24 VAC
Current (Standby/Active): 23 mA / 75 mA

ORDERING INFORMATION

P/N: 301500 Programmable Relay Timer
P/N: 302003 Programmer

WARRANTY

All EAGLE Security Products, Inc. Products are backed by our standard "out-of the-box" failure warranty: If it's bad, we'll replace it. Contact EAGLE for details.

77 Dingens Street, Suite B, Buffalo, NY 14206-2307
Tel: 716.827.6500 Fax: 716.827.6505

SALES INFORMATION: 800.334.7188
email: sales@eagle-security.com

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TECHNICAL SUPPORT: 800.447.E3A2G4L5E
http://www.eagle-security.com

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APPLICATION DESCRIPTIONS

The Model 1500 Programmable Relay Timer has many modes of operation. These modes offer you a wide range of possibilities. Here are a few examples of how the Model 1500 can be used.

- **Door Strike with immediate reset.** The Model 1500 can be used as a door strike interface with an automatic reset of the door strike when the door is closed. This offers maximum security not allowing the door to remain unsecured after entry by an authorized personnel while traditional timers wait for their internal timer to reset.
- **Door Strike without immediate reset.** The Model 1500 can be used as a traditional door strike interface. Activation of a remote button will activate the Model 1500, and thus the door strike, for the duration programmed into the timer.
- **Remote Power Supply Switching (Remote toggle.)** The Model 1500 can be used with a push button switch and light gauge wires to control a power supply or any other load that needs to be switched on and off remotely.
- **Exit/Entry Delay.** Most alarm panels today have programmable zones that can be selected as exit/entry delay zones with one and sometimes two programmable delays. When you need an additional delay, e.g., for a longer time period than the alarm panel provides, the Model 1500 can be used!
- **No-Activity Timer.** With more elderly individuals living alone in their homes there is a growing need to know as soon as possible that a life threatening event has occurred. Hard wired panic buttons and RF pendants provide a means to communicate most of these events. But for those occurrences when the person is not wearing the pendant, cannot reach a panic button or is unconscious, the Model 1500 can be used to monitor the normal activity of the person in the house and trip an alarm when these activities cease.
- **“Dual Tech” Sensor.** The Model 1500 can be used to create your own “dual tech” type of sensor. With its two inputs, the Model 1500 can be connected to two devices (motion, contact, pad, beam, etc.) In this mode, the Model 1500 must see a trip from both sensors within the programmed period of time before it activates its output. If only one device trips, the input is ignored. This mode can be used for any type of application when the “AND” function is needed.
- **Garage Door Bypassing.** Generally, overhead garage doors in residential alarm installations are not monitored. This is because the exit/entry delay required would be excessive and compromise the rest of the system. Because of this, when the homeowner arms the alarm system at night they have to physically go look to see if the door(s) is closed or more likely forget to look and arm the system with an open garage door. The Model 1500 can be used to bypass the garage door for a long period of time and then monitor the door(s) status and report it to the alarm system.
When the garage door has been closed and then opens, the Timed Delay is activated via the Primary Trip input. When the Timed Delay expires the Model 1500 looks at the Primary Trip input and if the garage door is open the relay will energize and stay energized until the door is closed. This will produce either a Not Ready condition (if the alarm panel is disarmed) or an Alarm condition (if the alarm panel is armed). If the garage door is closed when the Timed Delay expires the relay will stay de-energized. The garage door is ignored during the Timed Delay.
- **Loading Door Bypassing.** Many small businesses that alarm their buildings during non-business hours often leave the back doors unprotected during business hours. The reason they do is because these doors are used to take in deliveries, take out the trash, employee smoke breaks etc. and this would require the constant bypassing and un-bypassing of that zone from the alarm panel arming station. In addition, employees will often prop these doors open and then forget to close them, which leaves the business wide open to the outside. The Model 1500 can be used to monitor these doors and report when they are left open.
- **7 Day Test Timer.** The Model 1500 can be used as a continuous repeat event timer such as a 7 day (or any other period) test timer for automatically testing the communicator in an alarm system once a week.