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Programmable GARAGE DOOR Controller (GDV I)-**STANDARD (BS2)**

The (Velleman Inc.) Reed Relay Switch is used in the Normally Open (NO) position when the Garage Door is secure. I recommend mounting the piece without the screws on top of the Garage Door with no more than a 3/4 inch gap from the second piece with the screws. Also you will need two (2) twin pair of (**28 gauge wire or Bell wire**). First pair will run from the Reed Relay Switch along with the second pair from the back of the automatic Garage Door opener (pins 1 & 2) to the GDV Controller. Looking at Nuts & Volts Nov.07 pg. 38, Genie units appear to use the same pins.

NOTE: The pins used should be the same ones connected to your wall mounted push button switch leading into most homes.

On power up:

The program checks to see if the DS1302 RTC is running, if not, it's automatically programmed & started with default values. Then the "Main Menu" can be viewed, one selection at a time. "Arm, Alarm Window, Monitor24hr, Set Time, and Close Time" can all be selected and/or adjusted from here. The [Up] and [Down] buttons move you through the "Main Menu" and the [Select] button will take you to the available options for that selection.

1) ARM: This mode continuously monitors the garage door and if secure will turn on the Green LED, display "All-SECURE" and actively update the Date/Time on the LCD Screen. The Backlight turns off after sitting idle (no user input) for 30 sec. This feature will be especially useful if the unit is mounted in your bed room. When the Garage Door opens, the program does a number of checks starting with turning on the Backlight, Red LED and Displays "NOT-SECURE" and if it is within the alarm time, an audible beep will be heard. It will then check to see if the 24hr monitoring mode is ON or OFF. If ON, it will start the "Close Time" routine no matter what the "ALARM WINDOW" time is set too. After the Delay time is up, the program will start the normal closing process. If "ALL-SECURE", the monitoring process will start over. If the 24hr monitoring mode is OFF, then the "Alarm Window" time is checked. If the current time is between these hours, then the Close Timer will start. Once the Close Time is completed, the program will start the normal closing process. Three (3) attempts are made at closing the door if needed, this ensures the door is not left in the open position. If NOT secure, after the third attempt, an intermittent Audible Alarm will sound until silenced; either by securing the Garage Door or turning the "BY-PASS" switch on. If the Garage Door is opened OUTSIDE of these set hours, the Backlight turns on, the Red LED will light, and the LCD Screen will display "NOT-SECURE", but NO Audible Alarm will sound, nor will the program attempt to close the garage door.

NOTE: If the Garage Door is open and the current HOUR has entered into the "Alarm Window" time, the program will start the normal closing process. Unless...the "BY-PASS" switch is on.

NOTE: When ALL-SECURE the Up-Switch will turn the Backlight back on for approximately 30sec. and the Select switch will take you back to the Main Menu.

NOTE: There will be a 30sec delay while the program waits for the Garage Door to close before re-checking. Thirteen (13 ~ 15) seconds appears to be the average close time of most 7ft garage doors.

2) Set Alarm: Military format (0000 – 2400) ONLY. Using the [Up] and [Down] buttons will allow you to adjust the "Alarm Window" Start and Stop time. Only the HOURS can be adjusted...NOT Minutes. After adjusting the Start Hour, press the Select Button and adjust the Stop Hour, then press the Select Button again and you will

return to the Main Menu. Now when “ARM” is selected, the “ALARM WINDOW” time will be in effect if the garage door is opened.

Ex.: Start-2100 -to- Stop-0800. So at 2100hr and before 0800hr when “ARMed”, the program will be monitoring the Garage Door. Any time before the Start hour or after the Stop hour the program will ONLY turn on the Red LED, display “NOT-SECURE”, and turn the Backlight on. If the current hour enters into the “Alarm Window” start time, and, the Garage Door is open, it will start the normal closing process, unless the “BY-PASS” switch is on.

Ex.: “Alarm Window” HOURS...1800hr(6:00pm) to 0300hr(3:00am), 0100hr(1:00am) to 1700hr(5:00pm), 1200hr(12:00pm..noon) to 2300hr(11:00pm).

NOTE: If the “Alarm Window” time(s) entered are the same, Ex.: Start: 1400 – Stop: 1400, then the program will set the 24hr monitoring. Meaning every time the garage door is open, the delay Close Time is in effect, unless the “BY-PASS” switch is on.

On power up or reset, the default values are always loaded...2100hr(9:00pm) to 0800hr(8:00am) with Monitor24 set to “OFF”.

3) Monitor24: The “Select” Buttons toggles the “ON” or “OFF” 24 hour monitoring of the garage door. So when ON, ever time, day or night the garage door is open, the normal closing sequence starts. When OFF, the “Alarm Window” time is in effect.

4) Set Time: Military format (0000 – 2400) ONLY. This format freed up additional programming space. On first power up the DS1302 RTC is not running, so default values are loaded into the DS1302 RTC. You can change these settings by using the [UP] and [DOWN] Buttons in the set time selection. By default Seconds=00. After you have made your final adjustment for “DAY” of the week (1=Sun, 2=Mon, 3=Tue, etc.), the DS1302 RTC will be automatically updated.

NOTE: If main power is removed, the Battery backup will maintain the correct time.

5) Close Time: On power up, the default Close Time is 20 minutes (20m). The delay Close Time can be adjusted up or down in increments of 10m, with a maximum of 90m. So any time you open the Garage Door, you will have from (10m, 20m...90m) minutes, before the closing sequence starts.

If the “BY-PASS” switch is in the **ON** position, the opening and closing of the Garage Door is not being monitored. Either the RED or Green LED is turned off, the AMBER LED is turned on and the LCD Screen will display “BY-PASS”.

NOTE: In the “BY-PASS” and “NOT-SECURE” modes the current Date and Time is NOT actively updated on the LCD Screen. This allows you to know when the event happened. The DS1302 RTC will be maintaining the correct Date/Time in the background and the LCD Screen will be actively updated when back in the “ALL-SECURE” mode.

NOTE: The BS2e version has Enhanced Code with double the features and options.

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