

GS-400 Digital Display Timer

**For a simple solution to programming,
use Remote Control (7711500)**



Purple	24VAC Common	Orange	Premium 1
Red	24VAC Hot	Grey	Premium 2
Red/Green	Input 1	White	Premium 3
Red/Yellow	Input 2	Green	Premium 4
Red/Black	Input 3	Brown	Premium 5
Blue	Input 4	Tan	Premium 6
Yellow	Timed Hot		
Red/White	Beeper Positive		
Black	Beeper Negative		

Press any button on the timer to cancel the time while it's counting down.

Entering the Report and Setup Screens

After power is applied, the display is alternating between the "Welcome" screen and "Deposit Coins" screen. Press **Mode** button on the back of the GS-400 and hold for 5 seconds until the version screen is displayed then release. To get out of the program mode, press **Mode** button until the startup screen is displayed, then release.

Enter Pass Code. Press **Up** or **Down** to change numbers. After last number is entered, press **Mode**. Default Pass Code 123456.

Press **Mode** to advance to next number. Press **Back** to return to previous number.

Reports

Can be reset by going to the setup reports screen and pressing the **Up** button so the screen says reset. Reports are not reset until the setup mode is exited.

Total Revenue The total amount of revenue that the GS-400 has received from all inputs.

Revenue Inputs 1 - 4 The amount of revenue that the timer has received on the respective input.

Total Cycles The number of times the timer turned on.

Total Run Time The total accumulated time the timer has been on for.

Wash Down Time The total time wash down has been used.

Total Express The number of times the ExpressKey has been used.

Total Exp Time The total accumulated time the ExpressKey has been used for.

Setting Up Your GS-400

MODE Press the Mode Button to go to next screen.

BACK Press the Back button to go to the previous screen.

UP Press the Up button to increase the value.

DOWN Press the Down button to decrease the value.

Start Up Time This is how much time is given for the Start Up cost. It is adjustable from 1 second to 99 minutes.

Start Up Cost The amount it takes to start the timer. It is adjustable from \$.01 - \$99.00.

Inputs 1-4 This is the value of a pulse on the Input set \$.01 - \$99.99.

Low Time Alert The amount of time remaining when the Low Time Alarm activates. This is adjustable from 1 second to 2 minutes. The beeper will beep twice per second for 10 seconds.

Quick Restart Time Allows the customer to restart the timer with one coin. This is adjustable in one second increments from disabled to 1 minute.

Start Up Delay Allows you to adjust, from 1 to 20 seconds, how long the start of the timer is delayed. This will also allow the customer time to get ready to wash.

Free Wash Cycles The number of wash cycles the timer will run before it gives free time. It is adjustable from disabled to 200 cycles. The free time is given after the first revenue deposit.

Free Wash Time Allows you to set how much free time is given. This is adjustable from 1-60 minutes.

Bonus 1 Amount Sets the amount of money that needs to be deposited to reach the first bonus level and is adjustable from \$.01 to \$99.99. The minutes are adjustable in the bonus time section.

Bonus 1 Time Adjustable from :01 to 60:00 minutes. The Bonus time is instead of the startup time when the timer starts counting down. Repeat



Digital Display Timer

Setting Up Your GS-400 (continued)

Event 1 Day Allows you to change your start up cost and time on certain day(s) and between certain times. Settings include: None, Mon, Tue, Wed, Thu, Fri, Sat, Sun, Wkdy, Wknd, All

Event 1 Start This is the time of day when the event starts.

Event 1 End This is the time of day when the event ends.

Event 1 Time This is the start up time used during the event. Adjustable from 1 second to 99 minutes.

Event / Start up Cost This is the start up cost used during the event. Adjustable from 0 - \$99.

Repeat the last 5 steps for Event 2.

Beeper Volume Adjustable from 1 to 10, 10 being loudest.

Business Name Allows you to program a message or the name of your wash. If the first character is a "*" no name will be displayed. Message or business name is displayed while timer is idle. Program up to 32 characters. Press the **Mode** button to advance to the next character. Press the **Back** button to go back a character. Press the **Up/Down** button to change the selected character. If message is 16 characters or less, it will center itself. If message is over 16 characters, it will scroll.

ExpressKEY The timer can count up when ExpressKEY is used. Enable or Disable using the Up and Down buttons.

Set Time Sets current day and time. Press the **Mode** button to advance to the next character. Press the **Back** button to go back a character. Press the Up or Down buttons to change the selected character. Set in military time.

Premium Time 1-6 Start Up 0 - 99:59, time given for premium input at start up

Premium Label 1 - 6 Press **Up/Down** key to select label. Label will be displayed when premium is selected.

Pass Code Press **Up/Down** key to set Pass Code. Press **Mode** to move to next number. **Important! Remember your Pass Code. If you forget it, you will have to return the timer to GinSan to reset it.**

Wash Down Code Use **Up/Down** key to change code. Press **Mode** to move to next number. Washdown can only be accessed using remote (part number 7711500).

Language Press **Up/Down** keys to select language

Reset Reports Use **Up/Down** key to select, NOT reset or rest will reset reports when setup is exited

GS-400 Timer Basics

Checking Power to the Timer Using a voltmeter, check the AC voltage to the timer. There should be 24 to 28 volts AC across the red and purple wires at all times; the same voltage should be across the yellow and purple wire when the timer is running.

Bypassing the Timer In order to bypass the timer connect a jumper wire between the red and yellow wire while the timer is connected. This will mimic the timer being on.

Starting the Timer Disconnect the red/green wire (while the red and purple wires are still connected). Tap the red/green wire to the red. Each touch and release simulates a coin being put in to the coin acceptor. The timer should start when the number of touch and releases equals your amount to start.

Stopping the Timer Pushing any of the buttons the on the back of the GS-400 will stop the timer. Shorting the timed hot to the common will also stop the timer.

Troubleshooting Your GS-400

Timer counts down but wash doesn't start

Check the wire connection of the Yellow Timed Hot and make sure its appropriately connected.

Timer will not start

- 1) Check Coin Mechanism and make sure it is working properly. Try swapping or replacing coin mechanism.
- 2) Follow the Amount to Start Instructions and verify that it is set correctly for your installation. The Amount to Start may be set higher than desired amount.

Timer timed out but the equipment still runs

There may be a short. With the timer timed out and the equipment running, disconnect the Yellow Timed Hot wire. If the equipment stops, the timer is bad. If the equipment is still running, check for a shorted wire.

Timer Specifications

Input Power: 20-32 Volts AC, 50/60 Hz

Loads Timed Hot: 3 Amps AC Continuous,
4 Amps AC Max

Temp Range: -40° to +65° C, -40° to +149° F

Input Pulse: ≥ 25ms

Time between Pulses: ≥ 30 ms

Start Up Time: 99 Minutes Max

Start Up Amount: \$99.99 Max

Input by Value: \$99.99 Max

Quick Restart Time: 1-60 Seconds

Start Up Delay: 1-20 Seconds

Free Wash Cycles: 0-200 Cycles

Free Wash Time: :01 - 60:00 Minutes

Bonus 1, 2, & 3 Amount: 0 - 99.99

Bonus 1,2, & 3 Time: :01 - 60:00 Minutes

Event 1 & 2 Day: Mon, Tue, Wed, Thu, Fri, Sat, Sun, Wkdy, Wknd, All, None

Event 1 & 2 Start: Any Time of the Day

Event 1 & 2 End: Any Time of the Day

Event 1 & 2 Time: 0 to 99 minutes

Event Start Amount: 0 - 99.99

Beeper Volume: 1-10

Low Time Alarm: 1-120 Seconds

Business Name: Up to 32 different characters

ExpressKEY: Enabled or Disabled

Set Time: Month - Day: 1-12, 1-31

Year: 20(10-99)

Day of Week: Monday - Sunday

Time: HH:MM 00-23:0-59