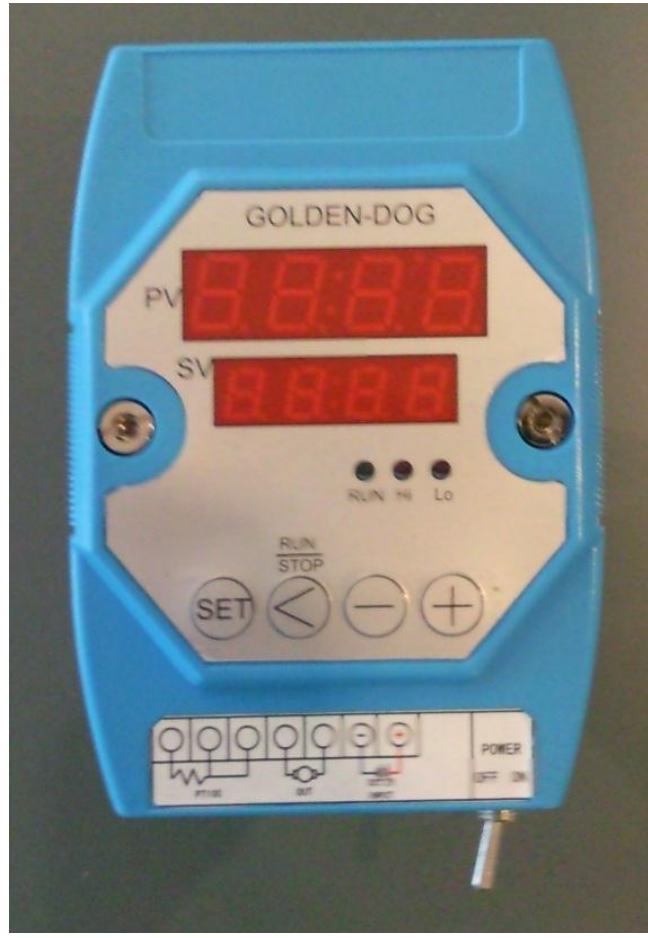


# Golden - Dog



# Manual

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# Golden Dog Manual

## Displays



There are two LCD displays and they are labeled PV / SV. PV is a read out and SV is your input.



The LED display is located below the LCD displays.

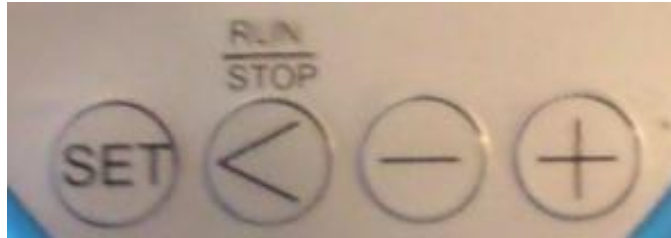
**RUN:** This green colored LED will blink very rapidly when manual mode and blink slowly when the fan is in auto mode. **NOTE:** In manual mode you will see - - - - on the SV display.

**Hi:** This red colored LED is the high temperature alarm light.

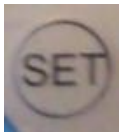
**Lo:** This red colored LED is the low temperature alarm light.

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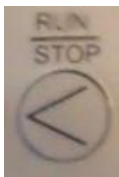
## Buttons



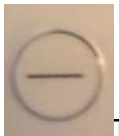
The controls are located below the LED display and they consist of four buttons:



This button is used to activate your three menus.



This button scrolls left with every click, it is used to easily enter large numbers without having to do it sequentially. This button will also set auto to manual mode.




This is used to lower the current number on the SV display.




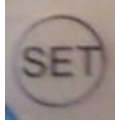
This is used to raise the current number on the SV display.

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## Menus

Menu #1 - activated by pressing .

Menu #2 - activated by pressing and holding the  button down.

Menu #3 - activated by continuing to hold the  button down while it is in *Menu #2*.

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Menu #1 (Single Click): This will cycle you through the 4 stage temperature setting. Each button click will move you through the menu starting at SC1 and ending at AH4.

SC1	SC2	SC3	SC4
RC1	RC2	RC3	RC4
AL1	AL2	AL3	AL4
AH1	AH2	AH3	AH4

## Legend:

SC= Desired pit temperature.

RC= Timing at desired pit temperature. e.g. 0060 = 1 hour

AL= Low temp alarm, to turn this off set it at a temperature that will never be reached; e.g. 0001.

AH= High temp alarm, to turn this off set it at a temperature that will never be reached; e.g. 0600.

1-4= This number represents the stage.

If you want only one temperature stage, simply set SC2 to 0000, it will now ignore the remaining stages. You can also do this for SC3 and SC4.

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Menu #2 (Press and Hold): This will bring you to the second menu, a single click will cycle through the menu and pressing and holding the button will bring you out of the menu.

**F – C** (*default SV value 0000 set to Celsius*)= Changing the value to 0001 sets it to Fahrenheit.

**SL1** (*default SV value 1111*)= Internal parameter to define mode of alarm. For BBQ use, leave at default value.

**SL2** (*default SV value 1011*)= Internal parameter to define mode of alarm. For BBQ use, leave at default value.

**HdC** (*default SV value 0100*)= Maximum Fan speed > This is represented in a percentage(0001-0100).

e.g. If you have a 10 CFM fan and set it to 0050 =

10CFM \* 50% = 5CFM will be the maximum speed the fan will spin.

This is mainly used in respects to the size of your cooker, the bigger the cooker the more of the fan you want to utilize and vice versa for smaller cookers.

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Menu #3 (Continuing to hold the button while in Menu #2): This will bring you to the third menu, a single click will cycle through the menu and pressing and holding the button will bring you out of the menu.

**P** (default SV value 0030)= PID setting. Google PID controllers for a detailed explanation.

**I** (default SV value 0240)= PID setting. Google PID controllers for a detailed explanation.

**D** (default SV value 0060)= PID setting. Google PID controllers for a detailed explanation.

To manually adjust these settings set I and D to 0000 while adjusting P to fine tune the responsiveness of the controller. The larger the value of P the less responsive it will be and the smaller the value the P the more responsive it will be.

e.g. 0001 = very responsive, 9999 = less responsive, try any number in between until you find your ideal setting.

**AR** (default SV value 0100)= use default, function not used.

**T** (default SV value 0000)= use default, function not used.

**Pb** (default SV value 0000)= used to calibrate the temperature probe change the value until the unit is calibrated. Ice water should read 0C/32F and boiling water should read 100C/212F.

**UdC** (default SV value 0000)= Minimum fan speed, used to define the minimum fan speed. Use a higher value if you do not want your fan spinning at the lower speeds or leave at default.

**LCK** (default SV value 0000)= use default, this locks the controllers internal parameters

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## Troubleshooting

Q: My PV display is showing - - - -

*A: This means you have either a loose or bad probe and will need to reconnect the probe wire or replace the probe.*

Q: My Hi/Lo is red LED is blinking

*A: This means you have exceeded your temp ranges set in Menu #1.*

Q: My PV display is blinking

*A: This means that the temp has exceeded readable temperatures.*

Q: My SV display is blinking - - : - -

*A: This signifies your TC timer set in Menu #1 has expired.*

Q: My temps get way too hot when I open my lid

*A: The Dog is a memory based PID controller, to counter act temp spikes when you need to open the lid simply switch the controller off and turn it back on after you have replaced the lid.*

Q: But I don't want to use all 4 temperature stages!

*A: Set SC2, SC3 or SC4 to 0000 to cancel the remaining stages.*

Q: My PV display is showing ERR

*A: Please restore to default settings. Please refer to page 10 for directions.*

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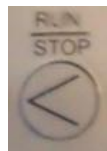
## Restoring to default settings:

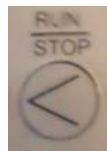
1. Turn off the power switch for 3 seconds.



2. Press  and hold.

3. Turn the power switch on, it will now show 8888, 1111, 2222 and then 3333.



4. Now release .