



AUTOMATIC STORMWATER DIVERSION SYSTEM

CONFIGURATION GUIDE

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CONFIGURATION GUIDE

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GLOSSARY

STORMSwitch –



This is the device that continuously samples the environment for rain/storm water, collects rain fall and signals the STORMController, Every time the STORMSwitch detects 1/100th of 1" rainfall it signals the STORMController

STORMController –



This is the device that takes the signal from the STORMSwitch and determines when to divert the E.G Start or stop a pump, Open or close a valve. Open the front panel on the STORMController to wire to power, wire the STORMSwitch and wire all diversion devices (pumps, valves...)

COUNTER/TIMERS

There are three main counters/timers that are configurable for your ASWDS

RC RESSET RAIN COUNTER RESET TIMER – The **RC RESET** is for setting how long a duration or time you wish your **RAIN CTR** to signal a **STORM EVENT** E.G. 1/10th of 1" of rain **in 30 minutes**. This timer is for the time facet and the **RAIN CTR** must also be set.

RAIN CTR STORMSwitch COUNTER – The **RAIN CTR** is for setting the amount you wish your **STORMSwitch** to signal a **STORM EVENT** E.G. 1/10th of 1” of rain **in 30 minutes**. This counter is for the amount facet and the **RC RESET** must also be set.

SE STORM EVENT RESET TIMER – This timer allows you to decide when you would like your **CONTROLLER** to reset back to **NORMAL MODE** from **STORM EVENT MODE** E.G. 2 hours after the last 1/100th of an inch of rain has fallen, the **CONTROLLER** resets to the **NORMAL MODE**.

EXERCISER - The system is programmed to automatically open and close the valve every 30 days (this setting can be changed from 1-99999 days) to prevent valve from sticking during long periods of no rain.

NORMAL MODE – This is the normal condition (Not during STORM EVENT) of the ASWDS. This is indicated by the **GREEN** light on the STORMController being illuminated.


STORM EVENT – When the end user desired amount of rain fall has fallen into the STORMSwitch and the STORMSWITCH has signaled to the STORMCONTROLLER that a STORM EVENT has occurred.


STORM EVENT MODE – This is when the Desired amount of rain fallen within given amount of time to trigger an event to divert E.G. 1/10th of an inch (10 on the rain counter within 30 Minutes. This is indicated by the **RED** light on the STORMCONTROLLER being illuminated.


CONFIGURING THE STORMCONTROLLER





This is the typical STORMController Screen Front. Note the configuration buttons

 = UP


 = DOWN

 = LEFT

 = RIGHT

 = ESCAPE

(From most screens, by continuing to press this key will return you to the first screen)

 = OK

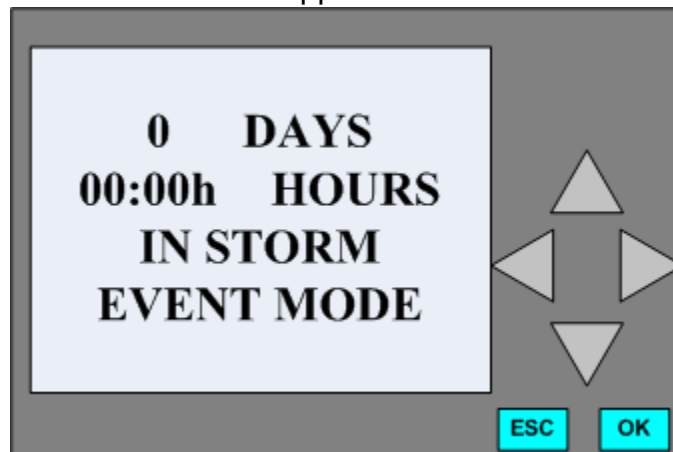
(This keys acknowledges you want to accept the current choice or configure or save the current screen)

Once the unit is powered up the **FIRST SCREEN** will appear like this:

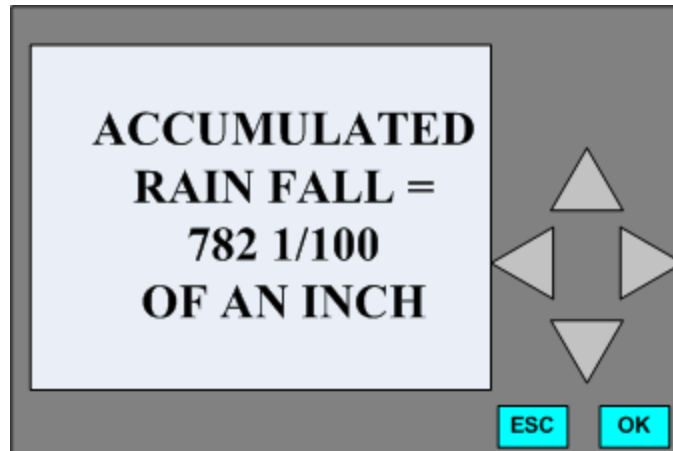


This first screen describes the number of days and hours since the last time a **STORM EVENT** was triggered. The screen also indicates the STORMController is currently in a **NORMAL MODE**.


If the STORMController is currently in **STORM EVENT MODE** it will appear like this.



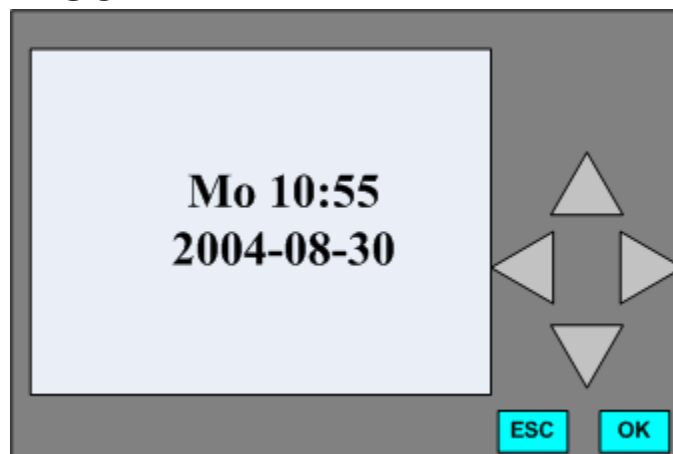
By using the  key it will take you to the **ACCUMULATED RAIN SCREEN**



This Screen shows the **ACCUMULATED RAIN FALL** sine last reset.
To RESET the ACCUMULATED RAIN FALL:

While in the **FIRST SCREEN** press and hold the **ESC** key then, while holding the **ESC** key press and hold the  key. The resetting counter display screen will begin flashing, continue holding the keys (approximately 3 seconds) until the display stays constant.
Once the display stays constant the counter is reset back to 0.

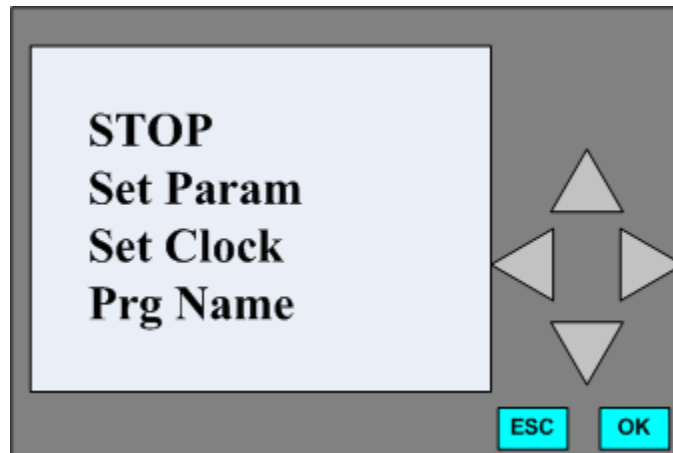
By using the  key, from the **ACCUMULATED RAIN** screen it will take you to **CLOCK/DATE SCREEN.**







The first line of this screen shows the current: Day **Mo** = Monday **Tu** = Tuesday **We** = Wednesday **Th** = Thursday **Fr** = Friday **Sa** = Saturday **Su** = Sunday as well as the current time **Hours: Minutes** **NOTE THIS IS A 24 HOUR CLOCK**
The second line of the **CLOCK/DATE** screen shows the **YEAR-Month-Date**

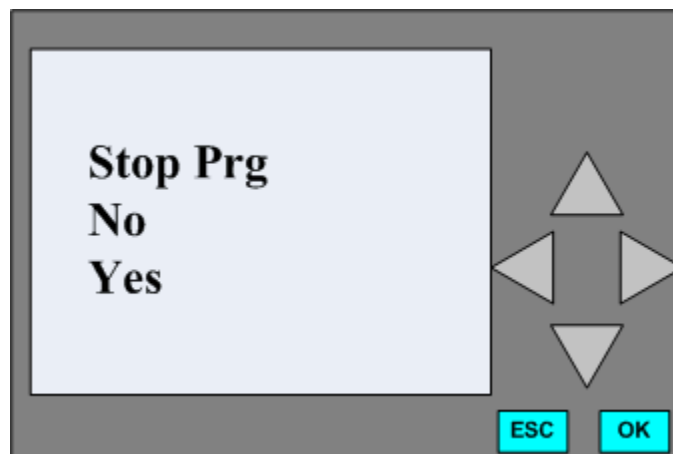
YOU MUST PRESS THE **ESC** key, from the **CLOCK/DATE** screen it will take you to the

MENU SCREEN:






Use the  key or the  key to move the  to select your MENU choice. By placing the  next to **STOP**, then pressing the **OK** button, it will bring you to the

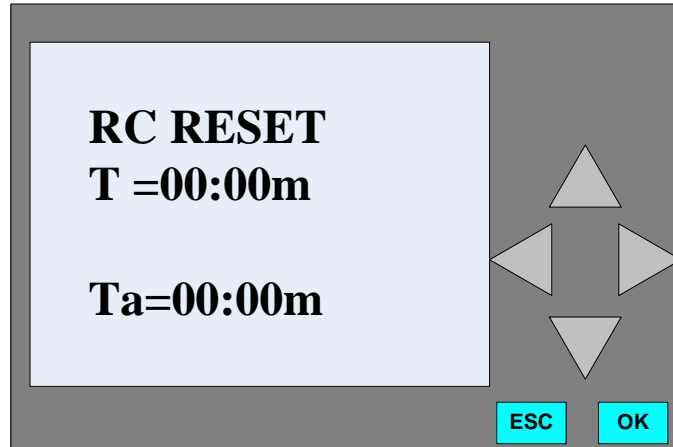
STOP PROGRAM SCREEN:



DO NOT USE THIS SCREEN IT CAN NEGITVELY EFFECT YOUR ASWDS STORMCONTROLLER

If you find yourself at this screen press the **ESC** button and return to the **MENU** screen

From the **MENU** screen, use the  key or the  key to move the **>** to select your MENU choice. By placing the **>** next to **Set Param** **SET PARAMETER**, then pressing the  button, it will bring you to the **RAIN COUNTER RESET TIMER**:





RC RESET = RAIN COUNTER RESET TIMER



Desired amount of rain fallen within given amount of time to trigger an event E.G. 1/10th of an inch (10 on the STORMSwitch counter **RAIN CTR**) **within 30 Minutes** (30:00m) This is the time facet only. You must also configure the **RAIN CTR- STORMSwitch COUNTER**.

TO change the **RC RESET = RAIN COUNTER RESET TIMER** press the  button. The first number on the “T” line will begin to blink

RC REST = RAIN COUNTER RESET TIMER

Use the  or  keys to display the different numbers 0 – 9


s = seconds
m = minutes
h = hours


Press the  or  keys to move between the different place holders

You may configure your **RAIN COUNTER RESET TIMER**

00:00s Seconds	through	99:99s Seconds
00:00m Minutes	through	99:99m Minutes
00:00h Hours	through	99:99h Hours

The “**Ta**” line will start to count down once the **Collector** has registered 1/100th of an inch of rain fall. If the STORMSwitch does not signal the configured amount of rainfall, for this setting is reached **E.G. 10/100th of an inch, in 30 minutes** this timer will reset to “0”. Thus preventing the signaling of a storm event over a greater period of time than the time desired.

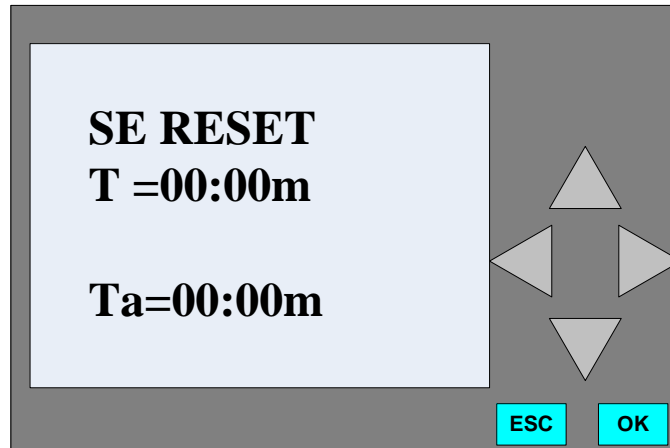
Once you have completed configuration press  to save your settings.
REMEMBER YOU MUST STILL CONFIGURE YOUR RAIN COUNTER FOR THE AMOUNT OF RAIN TO FALL TO TRIGGER A STORM EVENT.

From the **RAIN COUNTER RESET TIMER** screen press the  key to display the **STORM EVENT RESET TIMER** screen.

SE RESET = STORM EVENT RESET TIMER



Automatically reset to normal mode after storm event E.G. 6 hours after the last 1/100th of an inch has fallen. (06:00h)



STORM EVENT RESET TIMER SCREEN:



To change the **STORM EVENT RESET TIMER** press the  button. The first number on the “**T**” line will begin to blink

STORM EVENT RESET TIMER

Use the  or  keys to display the different numbers 0 – 9
s = seconds
m = minutes
h = hours

Press the  or  keys to move between the different place holders

You may configure your **STORM EVENT RESET TIMER**

00:00s Seconds through 99:99s Seconds

00:00m Minutes through 99:99m Minutes

00:00h Hours through 99:99h Hours

Once you have completed configuration press  to save your settings.

The “**Ta**” line will start counting down once the STORMController has registered a storm event. If the STORMSwitch signals another 100th of an inch of rain has fallen, this timer will reset to “0” and begin to count down again. Once this timer meets the amount of time configured in the **STORM EVENT RESET TIMER** the STORMController will reset to the **NORMAL MODE**.

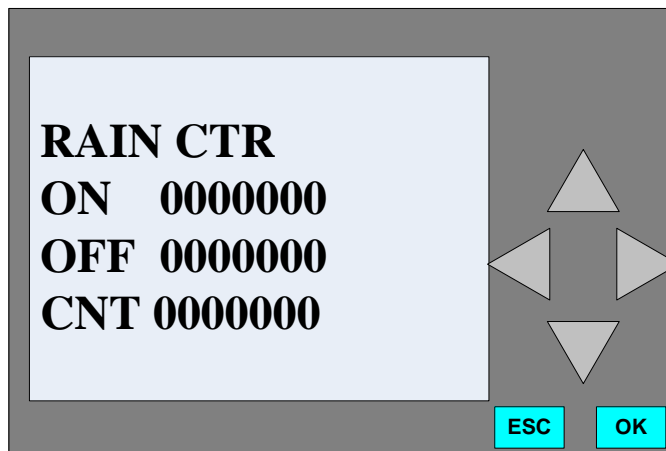
From the **STORM EVENT RESET TIMER** screen press the  key to display the **RAIN COUNTER** screen.



RAIN CTR = RAIN COUNTER



Rain Amount to trigger event, **E.G. 1 = 1/100th of an inch, 2 = 2/100th of an inch.** (This is the amount variable you must set **B1**)

To change the **RAIN CTR = RAIN COUNTER** press the  button. The first number at the “**ON**” line will begin to blink

RAIN COUNTER SCREEN:



Press the  or  keys to move between the different place holders

Each place holder can register between 0 and 9 by using the  or  keys to configure the different numbers


The counter is in .01 or 1/100ths of an inch. To set the STORMController to trigger a STORM EVENT example: 1/10th of an inch of rain fall set the counter to

ON 000010
OFF 000010

SET OFF THE SAME AS ON

This example equals **TEN** 100ths of an inch.

Once you have completed configuration press  to save your settings.

From the **RAIN CTR** screen press the  key to display the **EXERCISER** screen.

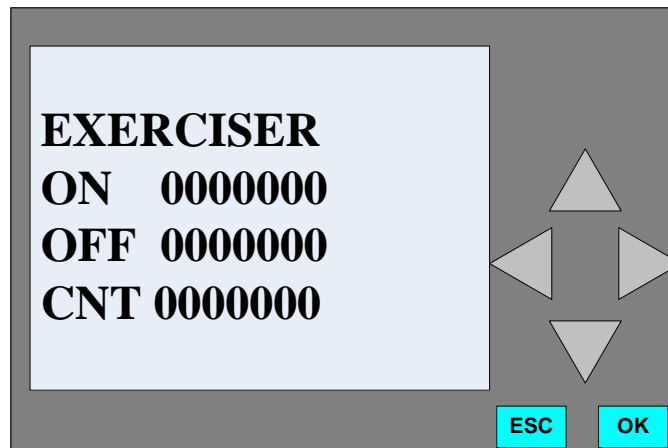
(IF YOUR UNIT DIVERTS WITH A VALVE THE NEXT SCREEN IS AVAILBLE)

EXERCISER = STORM EVENT EXERCISE DAY COUNT

Number of days to trigger event (exercise valve for maintenance), **E.G. 30 = 30 days Recommended by most manufactures, 15 = 15 days..** To change the

EXERCISE = STORM EVENT EXERCISE DAY COUNT press the  button. The first number at the “**ON**” line will begin to blink




EXERCISER SCREEN:



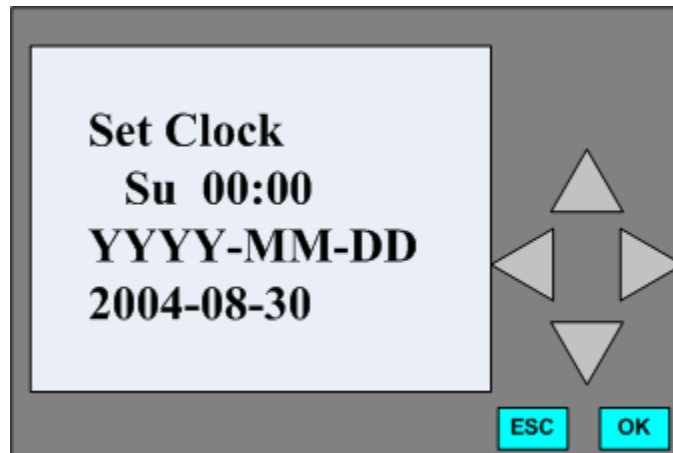
EXAMPLE:

ON 000030
OFF 000030

Press the  button and return to the **MENU** screen



From the **MENU** screen, use the  key or the  key to move the **>** to select your MENU choice. By placing the **>** next to **CLOCK SET**, then pressing  will take you to the


CLOCK SET SCREEN:






The first letter of the Day of the week will begin blinking.

Su = Sunday
Mo = Monday
Tu = Tuesday
We = Wednesday
Th = Thursday
Fr = Friday
Sa = Saturday


Use the  or  keys to change the display to the different days of the week.

Once you have selected the correct day of the week, press the  key.


The first digit of the 24 hour clock will begin to blink. Use the  or  keys to display the different hours of the 24 hour clock. After setting the first number in


the hour use the  key to set the second number of the 24 hour clock. Continue this process to set the minutes EG: 10:10 = Ten minutes after ten o'clock AM or 22:10 = Ten minutes after ten o'clock PM



Once you have finished selecting the correct **hours** and **minutes** for the 24 hour

clock, press the  key. This will take you to the second to the last number in the **year** configuration. NOTE you can not change the first two numbers of the **year**. The first two numbers will remain 20 you will notice the third number in the


year starts to blink. Use the  or  keys to display the different **years** in the third space E.G. 2000. After setting the first number in the **year**, press the


 key to set the second number of the **year**. Once you complete this process you will have set the last two numbers only in the four digit **year** E.G. 2004.

Once you have selected the correct **year**, press the  key. This will take you to the first of the two digit **month** setting. You will notice the first number in the


two number **month** start to blink. Use the  or  keys to display the different **months** in the first space


Once you have selected the correct first space for the month setting, press the


 key. This will take you to the second of the two digit **month** setting. You will



notice the second number in the two number **month** start to blink. Use the  key

or  keys to display the different **months** in the second space E.G. 09,

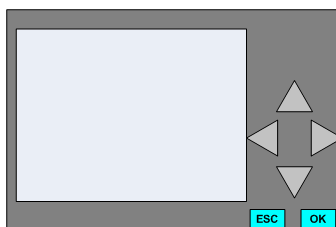
Once you have selected the correct **month**, press the  key. This will take you to the first of the two digit **date** setting. You will notice the first number in the

two number **date** start to blink. Use the  or  keys to display the different **dates** in the first space Once you have selected the correct first space for the

date setting, press the  key. This will take you to the second of the two digit **date** setting. You will notice the second number in the two number **date** start to

blink. Use the  or  keys to display the different **dates** in the second space E.G. 25,

PROGRAM NAME SCREEN:






DO NOT USE THIS SCREEN IT CAN NEGITVELY EFFECT YOUR ASWDS STORMCONTROLLER

If you find your self at the **PROGRAM NAME SCREEN** press the  button and return to the **MENU** screen

CONFIGURING MANUAL/AUTOMATIC EVENT RESET MODES:




If you wish to only have the STORMController reset manually by pressing the reset button on the front of the STORMController or if you wish to change the **STORMCONTROLLER** from **MANUAL EVENT RESET MODE** to **AUTOMATIC EVENT RESET MODE**.

While in the **FIRST SCREEN** press and hold the  key then, while holding the  key press and hold the  key. The mode the STORMController is switching to will begin flashing either **AUTOMATIC RESET MODE** or **MANUAL RESET MODE**. Continue holding the keys (approximately 3 seconds) until the display stays constant. Once the display stays constant the STORMController is now set in that mode. If you require the other mode simply repeat this process and the other condition will be set.

CONFIGURING VALVE OPEN/CLOSED DURING AN EVENT MODES:

THIS MAY NOT BE USED ON ALL STORMCONTROLLERS, ONLY OF YOUR STORMCONTROLLER IS SENT FROM THE FACTORY TO CONTROL (1) VALVE AS ONE OF THE DIVERSION METHODS.




This process sets/changes weather your valve is in the open or the closed position during a **STORM EVENT**.

While in the **FIRST SCREEN** press and hold the  key then, while holding the  key press and hold the  key. The mode the STORMController is switching to will begin flashing **VALVE OPEN DURING AN EVENT MODE** or **VALVED CLOSED DURING AN EVENT MODE**. Continue holding the keys (approximately 3 seconds) until the display stays constant. Once the display stays constant the STORMController is now set in that mode. If you require the other mode simply repeat this process and the other condition will be set.




CONFIGURING PUMP ENABLED/DISABLED DURING EVENT MODES:

THIS MAY NOT BE USED ON ALL STORMCONTROLLERS, ONLY OF YOUR STORMCONTROLLER IS SENT FROM THE FACTORY TO CONTROL (1) PUMP AS ONE OF THE DIVERSION METHODS.

This process sets/changes weather your valve is in the open or the closed position during a **STORM EVENT**.

While in the **FIRST SCREEN** press and hold the  key then, while holding the  key press and hold the  key. The mode the STORMController is switching to **PUMP ENABLED DURING EVENT MODE** or **PUMP DISABLED DURING EVENT MODE**. Continue holding the keys (approximately 5 seconds) until the display Returns to the first screen. Once the display returns to the first screen, the STORMController is now set in that mode. If you require the other mode simply repeat this process and the other condition will be set.

RESETTING THE ACCUMULATED RAIN COUNTER:

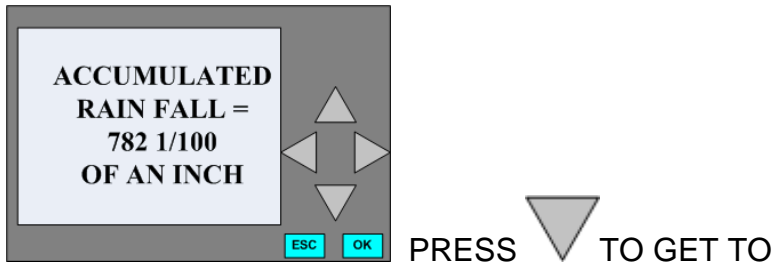
While in the **FIRST SCREEN** press and hold the  key then, while holding the  key press and hold the  key. The resetting counter display screen will begin flashing. **RESETTING ACCUMULATED RAIN COUNTER**. Continue holding the keys (approximately 3 seconds) until the display stays constant. Once the display stays constant the counter is reset back to 0.

QUICK REFERENCE CONFIGURATION SCREENS

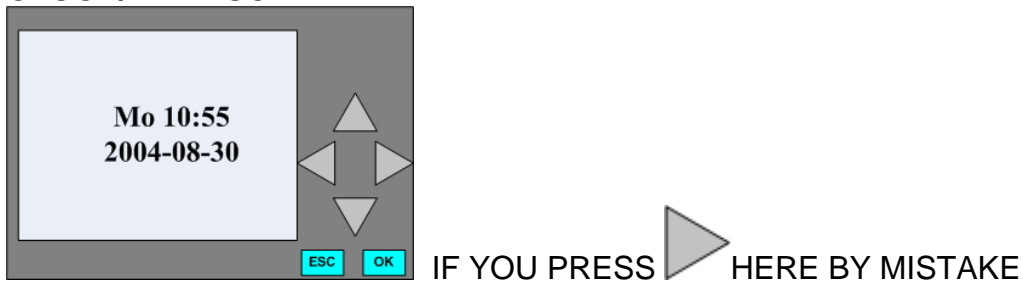
FIRST SCREEN





ACCUMULATED RAINFALL SCREEN

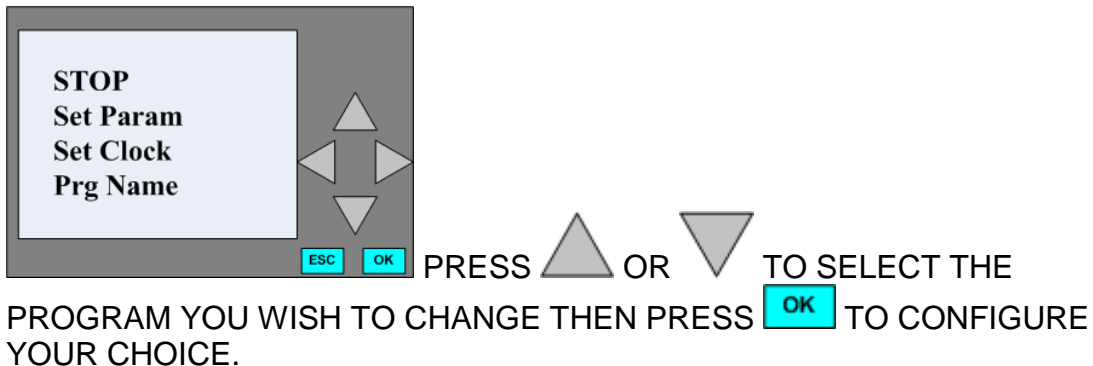


CLOCK/DATE SCREEN

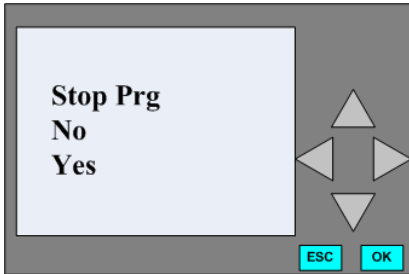


KEEP PRESSING  UNTILL YOU GET BACK TO **CLOCK/DATE SCREEN**
THEN PRESS  HERE TO GET TO

MENU SCREEN



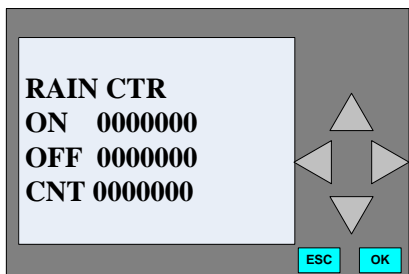
STOP PROGRAM SCREEN



PRESS **ESC** TO RETURN TO THE MENU

DO NOT USE THIS SCREEN

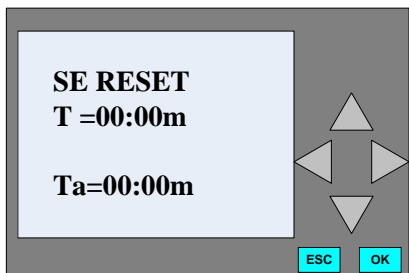
RAIN COUNTER RESET TIMER SCREEN



PRESS  TO MOVE TO THE NEXT PARAM

PRESS **ESC** TO RETURN TO THE MENU

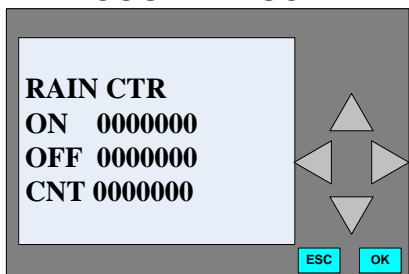
STORM EVENT RESET TIMER SCREEN



PRESS  TO MOVE TO THE NEXT PARAM

PRESS **ESC** TO RETURN TO THE MENU

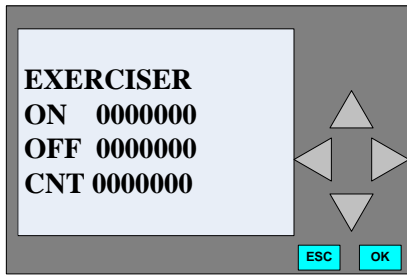
RAIN COUNTER SCREEN



PRESS  TO MOVE TO THE NEXT PARAM

PRESS **ESC** TO RETURN TO THE MENU

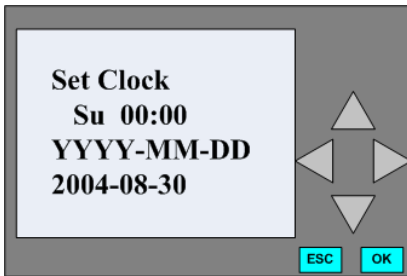
EXERSIER SCREEN



PRESS  TO MOVE TO THE NEXT PARAM

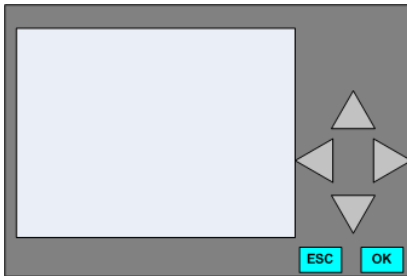
PRESS  TO RETURN TO THE MENU

SET CLOCK SCREEN



PRESS  TO RETURN TO THE MENU

PROGRAM NAME SCREEN



PRESS  TO RETURN TO THE MENU

DO NOT USE THIS SCREEN

