



Mata™

Solid Waste Interceptor

Controls Guide

Viewing and Changing Parameter Blocks



Step 1: To begin the configuration process, press the “ESC” key.



Step 2: Press ∇ on the unit to select “Program”. Then press the “OK” key.



Step 3: Press “OK” to select “Set Parameter”.



Step 4: Press $\wedge$ or ∇ to select the desired parameter to adjust and press “OK”. Continue to **Step 5** on the following pages for the specific block type being edited.

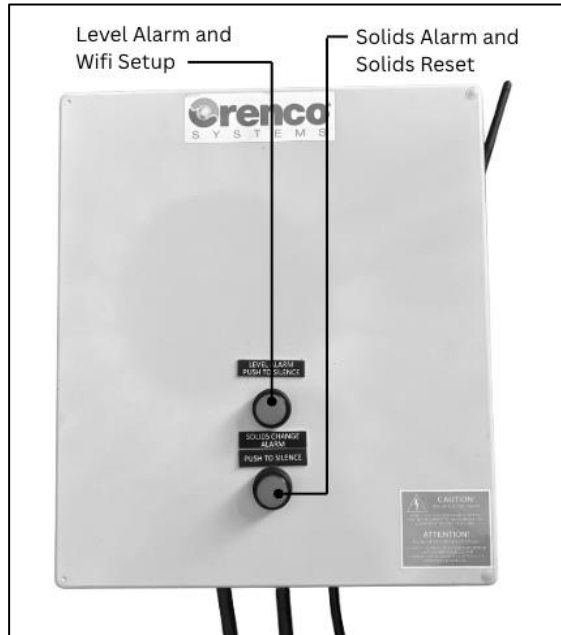


Step 5: In this example, the set time is 1 hour and 55 minutes, “T=01:55h.” To change the set value for the parameter, press the “OK” key. Press “ESC” key if you only wished to view the parameter.



Step 6: The cursor will blink in the set value. To select the digit to be changed, press $\lt$ or $\gt$. To change the value of a digit, press $\wedge$ or ∇ .

Set Wifi Connection



- Hold the Level Alarm / Wifi Setup button down for at least 5 seconds.
- In your cell phone settings, connect to the wifi network: WaiHome-Setup-sm-...
- Password is “waihome-setup”
- Do not accept if your phone requests to connect to another network during this process.
- Once connected, go to your browser and enter “http://192.168.4.1:1880/setup”
- Input the household’s wifi username and password and click submit.
- Confirm with WaiHome that the unit is now connected to the server.



Key Points

- An extender may be necessary to boost your wifi
- This uplink allows WaiHome to monitor your unit

Standard Settings for Mata Control Systems

Mata uses Orenco’s MVP control panel for system control. The MVP panel includes an easy-to-use programmable logic unit that incorporates many timing and logic functions. Some operational parameters may need changing for your particular application. The following variables have been used with your control panel:

Variable	Function	Factory Default
PumpOnDelay	Delays turning pump on after working float triggers	10 sec
EmerPumpTim	Minimum time pump is on after emergency float triggers	10 sec
EmerOnDelay	Delays turning pump on after emergency float triggers	10 sec
PumpCycTime	On/off cycle times if pump is on for extended period	4 min / 1 min
PumpTimeMax	Time pump is on before alarm triggered	10 min
SilenceTime	Time alarm is silenced before going on again	12 hours
MaxSolidsCnt	Pump Cycle Based Bin Swap Frequency	500/0/Cnt/0
SwapStart	Length of button press to start solids emptying process	3 sec
PumpLivesCnt	Running count of pump counter resets	30,000/0/Cnt/0
PumpCount	Running count of pump events and reset frequency	30,000/0/Cnt/0
HeatCount	Pump cycles between heat events (reduce for drier solids)	20/0/Cnt/0
HeatPulse	Pulse length signaling heat on	1 sec
PumpOvertime	Pump cycles where the pump ran too long	0/0/Cnt/0
Location	Set to avoid alarms during night	GMT-10
Swap Period	Time before pump/auger automatically unfreeze from swap	60 min
SolLightFlik	Solid light flicker period during swap	2 sec / 2 sec
Change Beeps	Frequency of beeps during swap	00:20 sec / 1 min
HeatTime	Heat cycle length	3 hrs / 0 hrs
HighLvlCnt	Running count of high level alarms	0/0/Cnt/0
SwapStop	Length of button press to end solids emptying process	6 sec
TimeBased	If On, solids changes based on time (DayCounter), if Off, based on use (MaxSolidsCnt)	On

DayTimer	Tracks passage of days	24 hours / Cnt
DayCounter	Set days to desired solids change cycle frequency	Days/0/Cnt/0
Pulse	Communication pulse setting	00:01 min / 00:01 min
SwapPulse	Swap pulse setting	10 sec / 1:01 sec
WifiPress	Hold down level alarm button to trigger wifi setup	5 sec
Plc2PiTime	Communication Setting	12 sec
ScreenDelay	Delays turning pump on after screen float triggers	5 sec
Changed Beep	Length of beep after button hold to stop bin swap	00:50 sec / 1 min
HeatOnDelay	Time delay on dehydrator turning on	5 min
AlarmCycle	Alarm on-off period during alarm condition	1 min / 14 min
TimeBaseHeat	If On, heat cycles based on schedule (HeatSched), if Off, based on use (HeatCount & HeatTime)	On
AlarmOnTime	Alarm will only turn on during this set period after a pump event	60 min
HeatSched	If TimeBaseHeat is on, this is the On schedule for heating	MTWTFSS/12:00/15:00

Setting a Solids Management Schedule

General servicing involves the professional removal of processed solids. If you have a maintenance contract, your technician will track your system's capacity through the control panel and schedule a convenient service appointment once the bin reaches its threshold. Initial solids emptying settings for a Mata should be set initially based on number of users. Once usage patterns are established, emptying cycles can be based on pump frequency to account for vacation periods and variable occupancy.

Step 1: Set conservative occupancy-based solids bin schedule.

Set TimeBased to On. Set Days in DayCounter according to the following table and household occupancy. (PLC parameter – see “**Viewing and Changing Parameter Blocks**”)

Users	1	2	3	4	5	6
Estimated Solids Loading (lbs/day)	0.2	0.4	0.6	0.8	1	1.2
Estimated Fill Cycle Time (days)	60	30	20	14	10	7

Step 2: For first 6 months of operation, before conducting the bin swap procedure, record Cnt in MaxSolidsCnt (PLC parameter – see “**Viewing and Changing Parameter Blocks**”) as well as how full the filling bin is. Cnt divided by % Full will give an estimated value for Max.

Bin Swap	1	2	3	4	5	6	7
Cnt	300						
% FULL	75%						
Max	400						

Step 3: Set Cnt in MaxSolidsCnt to 75% of the smallest Max recorded. You may now switch to a usage-based solids bin schedule by changing TimeBased to Off. Significant changes in normal usage patterns (such as less common showers) may result in bins filling up sooner than predicted.

Solids Bin Change Procedure

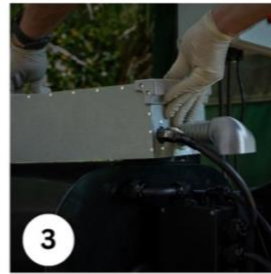
Solids produced by Mata have been heat treated but are not completely sterilized. It is good practice to wear gloves during solids change procedure. Find link to order new 7 gallon grow bags in WaiHome maintenance manual.



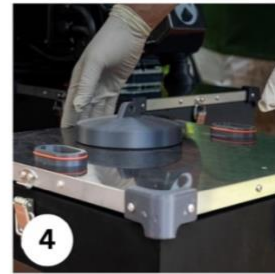
1
Press and hold Solids Change button until it beeps to start change.



2
Lift heating loop off the top of the solids bin in the aging position.



3
Place loop on top of the Mata unit out of the way.



4
Unlatch the lid of the aging bin and remove it.



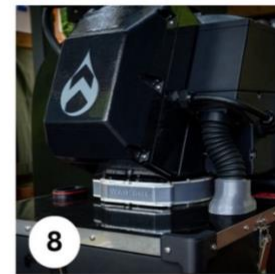
5
Withdraw the bag of aged solids and dispose of them.



6
Insert new solids bag and fold top of the bag over the basket lip.



7
Replace lid and move the now empty bin to the side.



8
Unlatch collar from the neck of the full bin.



9
Remove vent and slide full bin into aging position.



10
Remove bin cap from the now empty bin and place it on the full bin.



11
Move empty bin into the filling position and reattach collar, vents, and heating loop.



12
Press and hold Solids Change button until it beeps to end change.

Carbon Filter Replacement

Find link to order new 4mm Pellet Activated Carbon in WaiHome maintenance manual.



1
Identify carbon filter to the right of the Mata logo.



2
Rock carbon filter forwards and backwards to loosen and remove.



3
Empty used carbon and refill with fresh 4mm pellet activated carbon media.



4
Press carbon filter back into place.