

Hunter360™ Software

OWNER'S MANUAL



Hunter360 Software

Map-based irrigation control platform for Hunter
ACC2 and ICC2 Controllers

Hunter®

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Hunter360 Software is a comprehensive, map-based irrigation management platform for operating Hunter ACC2 and ICC2 Controllers along with dedicated weather stations.

Minimum System Requirements

To guarantee optimal performance of Hunter360 Software, the following minimum system specifications are required:

- CPU Cores: 4
- Memory: 16 GB
- Storage: 1 TB SSD

Supported Operating Systems

The software is designed to operate on the following Windows® platforms:

- Windows 10
- Windows 11
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022

Overview

The dashboard allows users to monitor and control various aspects of the irrigation system.

1. **Communication Status:** Displays the total number of controllers and online/offline status
2. **Controller Status:** Shows the number of controllers that are currently irrigating or in an alarmed state
3. **Operation Status:** Provides the total number of running stations and pump/master valves (P/MVs) with their respective flow percentages
4. **Unified Commands:** Allows users to execute system operation actions such as Auto, Shutdown, and Stop Irrigation; includes options for setting the number of days off and applying global seasonal adjustments
5. **Weather Station:** Displays current weather data such as temperature, atmospheric pressure, wind direction, wind speed, solar radiation, humidity, rainfall, accumulated evapotranspiration (ET₀), and the previous day's ET₀
6. **Water Source Flow:** Displays the flow rate of the water source in liters per minute (l/min)
7. **Discharge Flow Status:** Shows the current discharge flow rate in gallons per minute (GPM) and the number of alarmed and active Flow Zones (FZs)

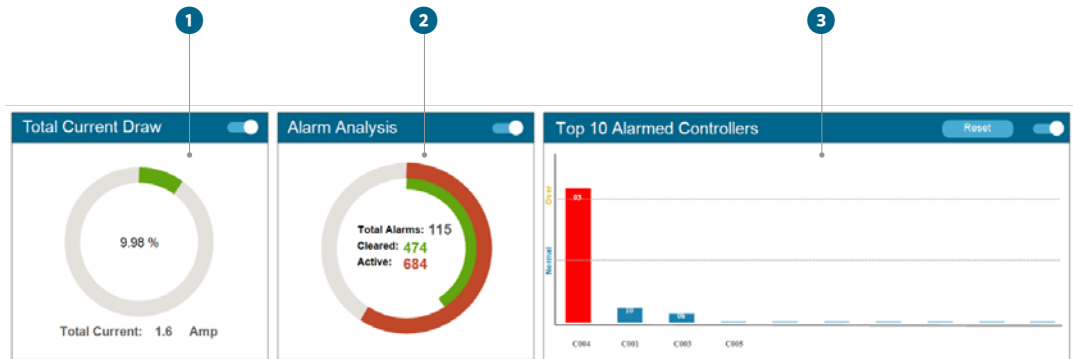
8. **Flow Total:** Provides a summary of water flow over different time periods: yesterday, last seven days, monthly, and yearly

System / Site Dashboard Sections



Unlocking Your Dashboard's Full Potential

1. **Total Current Draw:** Displays the percentage of the total current draw and the actual current in amperes (A)
2. **Alarm Analysis:** Shows the total number of alarms, distinguishing between cleared and active alarms
3. **Top 10 Alarmed Controllers:** Displays a bar chart of the top 10 controllers with the highest number of alarms, differentiating between “normal” and “over” alarm conditions



Understanding Map Interactions

The irrigation system map provides a visual representation of the irrigation devices, showing the controllers and the status of different components. This manual will guide you through understanding and using the map interface.

- **Map Display:** The central area of the interface where the irrigation system layout is displayed. Zones, controllers, and other key components are marked on the map.
- **Controller Legend:** Provides explanations for the symbols and color codes used on the map. Typical symbols include:



Light Blue: Active/
Operational



Red: Devices with
Alarms or Issues



Blue: Idle



Controller Is
Shut Down



Controller Day Off
Is Active



Controller Is
Suspended



Controller Is Paused



Controller Is Offline

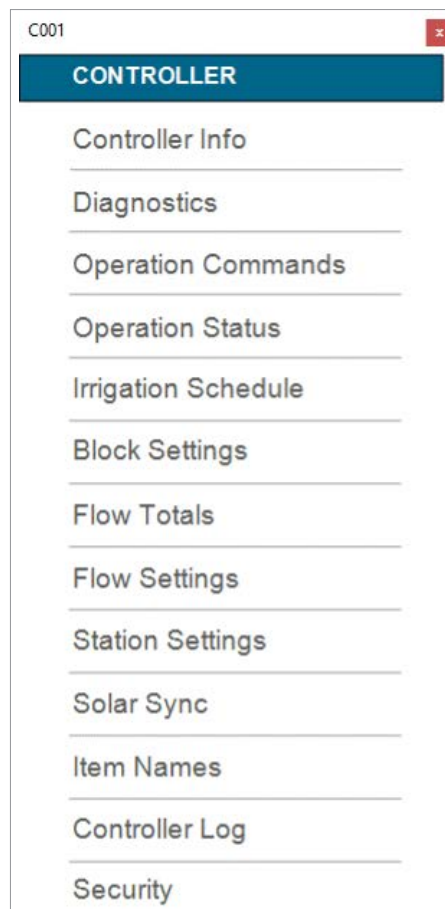
- **Navigation Controls:** Controller icon button to view the controller functions. Flow icon button to view flow.
- **Status Indicators:** Real-time indicators showing the operational status of different zones and controllers. Examples:
 - Active: Zones currently irrigating
 - Alarmed: Zones with issues that need attention
- **Interactive Elements:** Clickable zones and controllers that provide detailed information when selected. Pop-up windows with data such as water usage, current flow rate, and last maintenance date.

Usage Instructions

- **Viewing the Map:** Open the irrigation system map to get an overview of the entire network. Use the navigation controls to zoom in on specific areas or components.
- **Understanding the Legend:** Refer to the legend to interpret the symbols and color codes on the map. Ensure you understand what each color and icon represents to accurately assess the system's status.
- **Monitoring Status Indicators:** Keep an eye on the real-time status indicators to identify active, idle, and alarmed zones.

Navigating the Main Menu

The Irrigation Controller Main Menu provides an intuitive interface for efficiently managing and controlling your irrigation controller. This pop-up simplifies monitoring and adjustment of irrigation settings.



Interface	Description	Purpose
Controller Information	Access detailed information about the irrigation controller	Provide essential details such as model, version, and current system status
Diagnostics	Run diagnostic tests to identify system issues	Facilitate troubleshooting and ensure optimal system performance
Operation Commands	Execute specific commands manually	- Start or stop irrigation cycles instantly - Allow override for maintenance or emergencies
Irrigation Schedule	Set up or adjust watering schedules	- Define when each zone should be watered - Optimize water usage based on plant needs and weather conditions
Block Settings	Configure settings for specific blocks	Customize irrigation parameters (e.g., duration, frequency) for different landscape sections
Flow Totals	Monitor total water usage	- Track water consumption over time - Aid in water conservation efforts
Flow Settings	Adjust flow rates for individual zones	- Optimize water distribution - Prevent overwatering or underwatering
Station Syncs	Synchronize settings across multiple stations	- Maintain consistent operation across all zones - Ensure consistent watering patterns
Solar Sync®	Integrate solar sensors (if available)	- Automatically adjust watering based on real-time weather conditions - Enhance water efficiency
Item Names	Customize names for system components	- Easily identify zones, valves, and sensors - Simplify management and troubleshooting
Controller Log	Review logs of controller activities	- Track changes made to settings - Investigate anomalies or errors
Security	Set up security features	- Prevent unauthorized access or modifications - Protect your irrigation system

Getting to Know Your Controller

The Controller Info Graphical User Interface (GUI) provides critical information and status updates about the irrigation system. This manual will guide you through understanding each section and its components.

This section displays essential details about the controller settings and configurations.

- 1. **Controller Time/Date:** Displays the current date and time set on the controller
- 2. **Controller Display Language:** Shows the language setting for the controller's display
- 3. **Controller Display Unit:** Indicates the measurement units used by the controller
- 4. **Firmware Version:** Displays the current firmware version running on the controller
- 5. **Station Size:** Indicates the number of stations (zones) managed by the controller
- 6. **Control Type:** Describes the type of control used by the irrigation system

C001 Controller Info		
Controller Info		
Controller Date/Time	2024-07-06 01:52 24 Hr	1
Display Language	English	2
Display Units	Metric	3
Firmware Version	4.19	4
Station Size	75	5
Controller Type	Decoder	6
Controller Status		
Shutdown		7
Days Off Active		8
Irrigating		9
Remaining Days Off	0 Days	10
Controller Flow Rate	114 LPM	11
Click Sensor 1	Active	
Click Sensor 2	Inactive	
Click Sensor 3	Inactive	

Interpreting Real-Time Status Updates

This section provides real-time status updates about the controller's operational state.

- 7. **Shutdown:** Shows if the controller is currently in shutdown mode
- 8. **Days Off Active:** Indicates whether the Days Off feature is enabled
- 9. **Irrigating:** Displays if the irrigation system is actively watering
- 10. **Remaining Days Off:** Shows the number of days left in the Days Off period
- 11. **Controller Flow Rate:** Displays the current water flow rate through the system

Staying Informed with Critical Alarms

The irrigation system provides real-time monitoring and management of alarms and controller information.

This section displays various alarms and system information that are crucial for monitoring the health and operation of your irrigation system.

1. **Station Size Is Zero:** No station output modules have been detected by the controller.
2. **Decoder Output Overcurrent:** The system detected too much electrical current on a decoder output, which could indicate a wiring issue or short.
3. **Max Transformer Fail:** The maximum power capacity of the transformer was close to being exceeded, and it was shut down to protect the transformer.
4. **Low-Voltage Current Detected:** A lower-than-expected electrical current is present, possibly due to a weak power source or connection problem.
5. **P/MV Fault Detected:** A fault was detected on the pump/master valve output.
6. **Sensor Decoder Fault Detected:** A sensor decoder has failed to respond, and the sensor cannot be read.

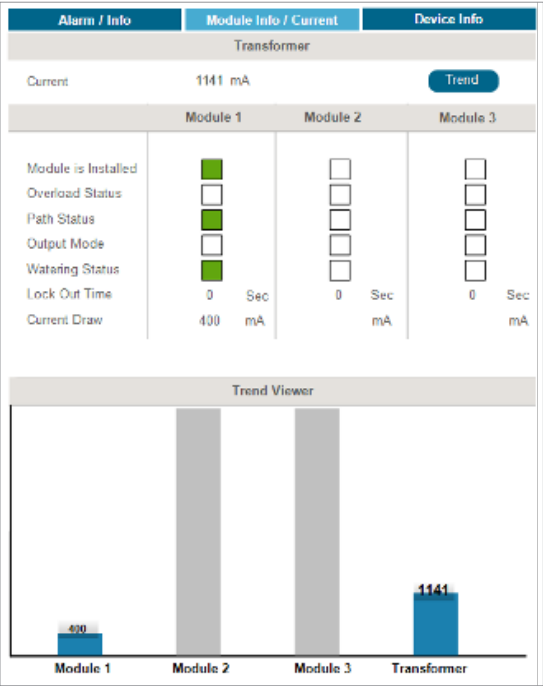
Alarm / Info	Module Info / Current	Device Info
Ack Alarm		
Controller Alarm		
1 ☐ Station Size is Zero	☐ MainSafe/Flow Zone Alarm Detected	7 ☐
☐ Power Outage Detected	☒ Klik Sensor Alarm Detected	
3 ☐ Max. Transformer Current	☒ Weather Sensor Com. Fault	8 ☐
2 ☐ Decoder Module is Overloaded	☐ RTC Fault Detected	10 ☐
4 ☐ Low Voltage Fault Detected	☐ CAN Bus Fault Detected	
☐ Station Fault Detected	☐ Weather Sensor Alarm Detected	
5 ☐ P/MV Fault Detected	☐ Klik Sensor Rain Delay Alarm	
6 ☐ Sensor Decoder Fault Detected	☐ NWW Violation Detected	
☐ Station Flow Alarm Detected	☐ Weather Sensor Rain Delay Alarm	9 ☐
Controller Information		
☒ Controller is Irrigating	☐ Time/Date was Updated	
☐ Shutdown is Active	☐ Active Event List Full	
☐ Days off Active	☐ A Program was Stopped	
☐ Controller Suspend is Active	☐ A Block was Stopped	
☐ Controller Pause is Active	☐ A Station or PMV was Stopped	
☒ Klik Sensor is Active	☐ All Irrigation was Stopped	
☐ Station Size Changed	☐ Condition Response Statement Started	
☐ Controller Inventory Changed	☐ Weather Sensor is Active	
☐ Data was Reset	☐ Decoder Wire Test Mode Active	
☐ Configuration was Updated	☐ Controller flow Diagnostic is Active	
☐ Mute is Active		

Additional Information and Alarms

7. **MainSafe®/Flow Zone Alarm Detected:** The system has detected abnormal flow in a MainSafe or Flow Zone area, which could indicate a leak, blockage, or misconfigured flow threshold.
8. **RTC Fault Detected:** The Real-Time Clock (RTC) is malfunctioning or out of sync, which may affect time-based operations like scheduled irrigation.
9. **Weather Sensor Comm. Fault Detected:** Communication with the weather sensor has been lost; weather-based adjustments may not function correctly until the connection is restored.
10. **CAN Bus Fault Detected:** There is a communication error on the controller's internal network (CAN Bus), which could disrupt coordination between modules or components.

Monitoring and Controlling Your System

The GUI provides comprehensive monitoring and control capabilities for your irrigation system. Key features include real-time current readings, system status indicators, and future trend monitoring capabilities.



Current Section

- Displays real-time electrical current measurements in milliamperes (mA) affecting your irrigation system
- Monitor this value continuously to ensure safe operation

Module Section

- Divided into two subsections: Module 1 and Module 2
- Checkboxes indicate active statuses for each module
 - **Path Status Checkbox:** Indicates path integrity
 - **Overload Status Checkbox:** Activates overload protection
 - **Watering Status Checkbox:** Monitors the watering process
 - **Lock Out Time Checkbox:** Engages a timing mechanism
 - **Output Mode Checkbox:** Output mode

Trend Section

- Intended for historical data trends

Bar Graphs

- Visual representation graph shows specific current values in real time

Device Information Retrieval

This manual provides instructions on how to effectively use the GUI for managing and monitoring your irrigation system's devices.

1. **Enter Device Number:** Input the desired Device Number into the designated field.
2. **Retrieve Information:** Click the Get button to retrieve detailed information about the specified device.

Alarm / Info		Module Info / Current		Device Info	
Station		PMV		Decoder Sensor	
Device Number : 1					
<button>Get</button>					
Device Info					
1	Device Type	Station			
2	Device Number	1			
3	Load Present	Yes			
4	Device Current Draw (Last Reading)	45 mA			
5	Decoder Communication %	100			
☒ Station ☐ D-Sensor ☐ PMV					
Number Of Reported Devices 1					
<button>Generate Report</button>					

Understanding Displayed Information

- **Device Type:** Indicates whether the device is a station, Pressure-Modulating Valve (PMV), or decoder sensor
- **Device Number:** Displays the unique identifier number assigned to each device
- **Load Current Draw (Last Reading):** Shows the last recorded current draw of the device in milliamperes (mA)
- **Decoder Communication %:** Represents the percentage of successful communication between the decoder and sensor associated with the device

Report Generation

1. **Select Devices:** Choose the device type to include — Station, D-Sensor, or PMV.
2. **Enter Device Quantity:** Enter the number of devices.
3. **Generate Report:** Create a report based on your selected criteria.

Manual Control Made Simple

This user manual provides instructions for using the GUI to effectively manage and control your irrigation system.

Start Events Section

1. **Device Type:** Select the type of device you wish to control from the drop-down menu.
2. **Device Number:** Enter the unique identifier number assigned to your device.
3. **Run Time:** Set the duration for which you want the device to operate. Input the duration in minutes and seconds in their respective fields.
4. **Start Button:** Press the Start button to initiate the irrigation process with the specified settings.

Program Commands Section

1. **Program Number:** Choose a program number to execute preset commands.
2. **Start From:** Decide whether to start the program from the Beginning or for a Specific Event.
3. **Control Buttons:** Use Stop to halt any running program. Use Start to begin the execution of the selected program commands.

Block Events Section

1. **Block Number:** Assign a block number if your irrigation system is divided into multiple blocks or zones.
2. **Station Time:** Set the duration for which a particular block should run. Input the time in minutes and seconds under the Station Time field.
3. **Control Buttons:** Press Stop to cease operation of the block. Press Start to initiate watering for a specific block with the defined settings.

The screenshot displays a mobile application interface for irrigation control, divided into three main sections. Section 1, 'Start Events', includes fields for 'Device Type' (set to 'Station'), 'Device Number' (1), and 'Run Time' (5:0). It features 'Start Multiple Events' and 'Start' buttons. Section 2, 'Program Commands', shows 'Program Number' (0) and 'Start From' options ('Beginning' and 'Specific Event'). It includes 'Stop' and 'Start' buttons. Section 3, 'Stop Devices', has fields for 'Block Number' (0) and 'Station Number' (0), each with a 'Stop' button. Numbered callouts are present: '1' points to the 'Block Number' field, '2' points to the 'Start From' dropdown, and '3' points to the 'Start' button in the 'Program Commands' section.

Taking Full Control with the GUI

This manual provides comprehensive instructions for using the GUI of your irrigation system. The GUI enables you to manage operational days and shut down, stop, suspend, or pause irrigation processes as needed.

Set Days Off

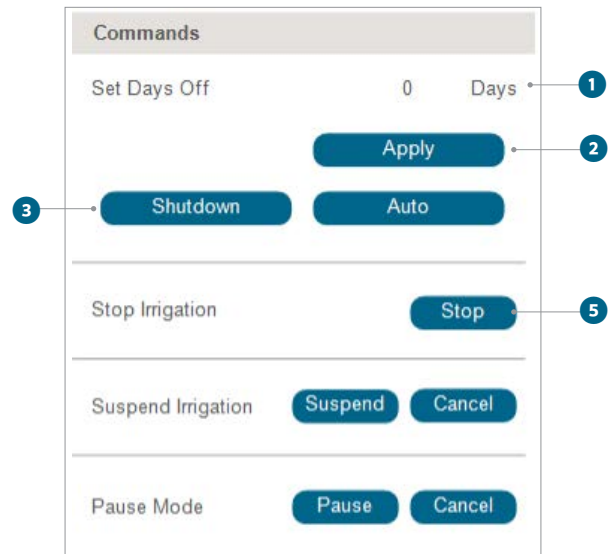
1. **Program Non-Operational Days:** Enter the number of days you want to designate as nonoperational in the provided field.
2. **Apply Settings:** Click the blue Apply button to save your settings for nonoperational days.

Shutdown

3. **Complete System Shutdown:** To completely turn off all system operations, press the blue Shutdown button.
4. **Confirmation:** Confirm any prompts that may appear to ensure the system has shut down completely.

Stop Irrigation

5. **Immediately Halt Watering Activities:** Click the red Stop button to immediately cease all ongoing irrigation activities.
6. **Manual Resume Required:** This action will stop irrigation until manually resumed through the GUI.



Suspend Irrigation

1. **Temporarily Halt Watering Activities:** Press the blue Suspend button to temporarily halt watering activities without shutting down the system.
2. **Resume Operation:** If you wish to resume irrigation before the scheduled time, press Cancel to end the suspension.

Pause Mode

1. **Short-Term Interruption of Irrigation:** Click Pause to initiate a short-term interruption of the irrigation process.
2. **Cancel Pause Mode:** To cancel Pause Mode and resume normal irrigation operation, click Cancel.

Saving Water with Seasonal Scheduling

The GUI enables you to efficiently manage and adjust watering schedules in response to seasonal changes, ensuring optimal water use throughout the year.

- 1. Global Adjustment:** Set an overall adjustment factor that applies to all months. To change the value, enter a number directly in the provided field. The Trend button may display historical data.
- 2. Monthly Seasonal Adjustment:** Fine-tune adjustments for individual months. Each month can be adjusted independently by entering a percentage value.

Editing Adjustments

- 1. Edit Mode:** Click the Edit button located at the bottom of the Monthly Seasonal Adjustment section.
- 2. Adjust Monthly Values:** Make changes by entering new percentage values for any month that requires adjustment.
- 3. Confirmation:** Confirm changes according to system-specific prompts to ensure adjustments are applied correctly.

Seasonal Adjustment

Global
5
Trend

Monthly Seasonal Adjustment

Jan	0 %	Feb	0 %
Mar	0 %	Apr	0 %
May	0 %	Jun	0 %
Jul	0 %	Aug	0 %
Sep	0 %	Oct	0 %
Nov	0 %	Dec	0 %

Edit

Decoding Controller Operations

This operational status provides comprehensive, real-time information on the status of operations at different-level stations, P/MV, and active flow zones.

- **Flow Zone:** Provides the status of the active flow zone
- **Master Valves:** Provides the operational status of the Pump or Master Valves
- **Stations:** Provides the operational status of the stations

Operation Status															
Flow Zones															Total Active : 3
1	2	3	4	5	6										
Master Valves															Total Active : 4
1	2	3	4	5	6										
Stations															Total Active : 20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
61	62	64	64	65	66	67	68	69	70	70	72	73	74	75	
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	
136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	
151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	
166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	
196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	
211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	

Creating Optimal Irrigation Schedules

The Scheduling tab is the primary programming tool for the ACC2 Controller's irrigation functions.

The Scheduling screen provides a spreadsheet view of most major ACC2 features. Each controller in a system has its own Scheduling tab. The settings on the Scheduling tab merely reflect the features of the ACC2 Controller.

- **Seasonal Adjust Mode:** Set a percentage adjustment for all run times by Controller or Program, create a Monthly schedule for the controller to follow automatically, or assign the program to Solar Sync for automatic adjustment.

- **Controller:** The Seasonal Adjust value follows the setting for the controller level; all programs set to Controller will receive the same manual adjustment.
- **Program:** The Seasonal Adjust factor entered here applies only to the selected program and is not affected by other adjustments.
- **Monthly:** Enter the adjustment value for each month of the year in advance (usually based on historical weather averages); these adjustments take effect automatically on the first of each month and remain unchanged throughout the month.
- **Solar Sync:** The selected program is automatically adjusted by a Solar Sync Sensor attached to the controller; this requires a sensor and setup at the Devices menu (Set Up Solar Sync).

Controller

Controller Info

Diagnostics

Operation Commands

Operation Status

Irrigation Schedule

Block Setting

Flow Totals

Flow Settings

Station Settings

Solar Sync

Items Name

Controller Log

Security

Irrigation schedule

Program Number: 1

Set

Mode: Days of Week

Number: 0

Seasonal Report

Seasonal Adjust Mode: Global

Water Days: Mon Tue Wed Thu Fri Sat Sun

Ignore Calendar Days Off: Enabled

Program 1: 99 %

Start Times	Mode:	Auto	Order	Run Type	ID	Run Time	Adj. R.T.	Order	Run Type	ID	Run Time	Adj. R.T.
Stack or Overlap		Overlap	1	Station	1	05:05:00	0	15	Station	15	05:05:00	0
No Water Window: Not Set	lo	Not Set	2	Station	2	05:05:00	0	16	Station	16	05:05:00	0
			3	Station	3	05:05:00	0	17	Station	17	05:05:00	0
Station Delay: 0H 00:00	0	0 22	4	Station	4	05:05:00	0	18	Station	18	05:05:00	0
Start Time 1	10:59		5	Station	5	05:05:00	0	19	Station	19	05:05:00	0
Start Time 2	12:15		6	Station	6	05:05:00	0	20	Station	20	05:05:00	0
Start Time 3	12:59		7	Station	7	05:05:00	0	21	Block	2	00:02:00	0
Start Time 4	13:59		8	Station	8	05:05:00	0	22	Station	1	01:50:00	0
Start Time 5	OFF		9	Station	9	06:22:23	0	23	Station	1	01:00:00	0
Start Time 6	OFF		10	Station	10	05:20:11	0	24	Block	1	01:00:00	0
Start Time 7	OFF		11	Station	11	05:05:00	0	25	Station	1	01:00:00	0
Start Time 8	OFF		12	Station	12	05:05:00	0	26	Block	1	01:00:00	0
Start Time 9	OFF		13	Station	13	05:05:00	0	27	Station	213	01:00:00	0
Start Time 10	OFF		14	Station	14	05:05:00	0	28	Block	44	08:08:08	0

Close

Creating and Setting Blocks

A block is an electronic group of stations that operates simultaneously for the same duration within a program.

To create and set a block, click and enter the Stations list. Blocks may also have their own Cycle and Soak settings.

- Blocks may have up to 8 stations each.
- There can be up to 64 blocks per controller.
- Blocks can be mixed in a program with individual stations.
- Programs with blocks are not limited in any way by other programs that are running; the controller will not turn on more stations than it can handle, so there are no artificial rules governing the blocks.

Block setting

Block Number : 0 Get

Stations Number
0
0
0
0
0
0
0
0

Cycle: 0 Min **Soak:** 0 Min

Generate Report Edit

Number 0.0

Determining Water Usage

Flow totals show the amount of water used over a specified time period. They may also be viewed at different levels, depending on how the controller is configured. Total Flow is counted by Controller and by Flow Sensor. Flow totals can be viewed at any of these levels by selecting Day, Week, Month, or Year.

Flow Totals					
Daily		Weekly		Monthly	
Controller	Flow Sensor 1	Flow Sensor 2	Flow Sensor 3	Flow Sensor 4	Flow Sensor 5
Flow Totals Gallon		Time Stamp		Flow Totals Gallon	
1	0	0	17	0	0
2	260225	2025-01-02	18	0	0
3	53855	2024-01-03	19	0	0
4	0	0	20	4699	2025-12-20
5	0	0	21	59819	2023-12-21
6	0	0	22	0	0
7	0	0	23	0	0
8	0	0	24	0	0
9	0	0	25	0	0
10	0	0	26	0	0
11	0	0	27	0	0
12	0	0	28	0	0
13	0	0	29	0	0
14	0	0	30	0	0
15	0	0	31	0	0
16	4563	2023-11-16			

[Graphic Bar](#)

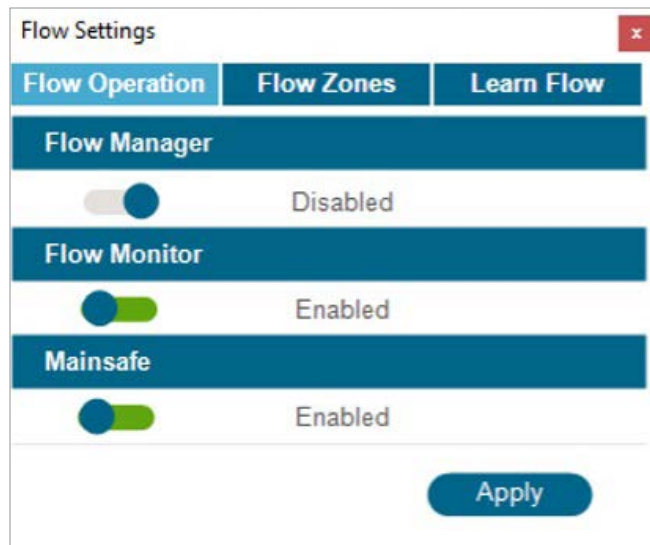
Flow Operation

The two major parts of Flow Operation are the Flow Manager and the Flow Monitor.

- **Flow Manager:** The Flow Manager uses station flow information to operate multiple stations simultaneously, aiming to achieve a flow rate target specified by the user. It will turn on as many stations as possible to stay at or near the flow target until there are no more stations to operate. This does not require a flow sensor input.
- **Flow Monitor:** The Flow Monitor verifies that actual flow matches the learned flow for all running stations and performs diagnostics or shutdowns when alarms occur. The Flow Monitor requires one or more flow sensor inputs to operate, and at least one Master Valve per flow sensor to be effective.

At the Flow Operation menu, click the toggle button to enable/disable the Flow Manager and/or Flow Monitor, if desired.

- **Enable MainSafe:** Enable MainSafe has its own checkbox. MainSafe is a special function for higher-level flow monitoring and mainline protection.



The image shows a 'Flow Settings' dialog box with three tabs: 'Flow Operation' (selected), 'Flow Zones', and 'Learn Flow'. Under the 'Flow Operation' tab, there are three sections: 'Flow Manager' with a toggle switch set to 'Disabled', 'Flow Monitor' with a toggle switch set to 'Enabled', and 'Mainsafe' with a toggle switch set to 'Enabled'. An 'Apply' button is located at the bottom right of the dialog.

Flow Zones

A flow zone defines a section of pipe and a group of stations attached to that pipe, which are managed as a hydraulic unit. Flow zones are used for both the Flow Manager and Flow Monitor.

The Flow Monitor requires the following actions to operate correctly:

- Install and set up a flow sensor (Devices menu).
- Install and set up a P/MV (Devices menu).
- Set up a flow zone and complete all information for the flow zone.
- Attach each station to a flow zone (Station Settings menu).
- Learn flow for all stations with run times (Learn Flow menu).

Flow Settings

Flow Operation

Flow Zones

Learn Flow

Select Flow Zone

1

2

3

4

5

6

Current Flow (GPM)

FS 1: 411.0

FS 2: 2090.0

FS 3: 322.0

FS 4: 1553.0

FS 5: 4052.0

FS 6: 3001.0

Zone Status

Avg. Flow Not yet Valid

Alarm Active

No Max./Unsch. Flow Limits

Station Active

Max. Flow Exceeded

Station Running

Unschedule Flow Exceeded

Flow zone Alarm

Clear

Flow Parameters

Flow Target

0

GPM

Max Flow Limit

0

GPM

Over Flow Limit

0

%

Under Flow Limit

0

%

Unscheduled Flow Limit

0

GPM

Monthly Budget

0

GPM

Manual Allowance

0

GPM

Alarm Set Delay

0

min

Alarm Clear Delay

0

min

Flow Sensor Map

1

2

3

4

5

6

P/MV Map

1

2

3

4

5

6

Flow Operation

Flow Monitoring

Disabled

Flow Manager

Disabled

Edit

Learn Flow

Flow learning will only test stations that already have a run time in a program. Flow learning will cancel all other irrigation (automatic and manual) until the learning is complete. Flow cannot be learned while other stations are running for other reasons. Confirm status to verify that stations are ready to learn. This will show how many stations have run times and how many already have flow rate data.

Flow Settings

Flow Operation

Flow Zones

Learn Flow

Learn Flow

Day Month Year

StartTime

0 0 0

Hr 0 Min 0 24 Hr

Apply

Learn Status

Day Month Year

Start Time

7 2 0

Hr 6 Min 28 24 Hr

Last Run

2 1 2024

Hr 10 Min 20 24 Hr

Active

0

Current Station

0

Last Flow Read

0

Stations Processed

11

Stations To Learn

11

Stations Learned

11

Stations Failed

0

Get Status

Adjusting Station Settings

The Station settings provide the user with the ability to change the station parameters and setup for hydraulic connection, flow setting, and Cycle and Soak.

- **Master Valve:** Indicates which normally closed P/MV outputs the station will activate whenever it runs. Station Flow Zone assignment is required for the Flow Manager and/or Flow Monitor.
- **Flow Priority (Used in Flow Manager):** Check the box to prioritize a station for earlier watering in flow management.
- **Flow Rate (Used in Flow Manager and Flow Monitor):** Enter or learn the typical flow for the station.
- **Delay:** Sets the amount of time the station can run before high or low flows will cause an alarm. Set longer delays for stations that take longer to stabilize flow.

Station Settings

Station Selection

Select Station No: +

Apply

Cycle and Soak

Cycle Time Min

Soak Time Min

Hydraulic Connection

Master Valve: 1 2 3 4 5 6

Link Flow Zone

Flow Setting

Flow Priority Disabled

Flow Rate GPM

Flow Delay Sec

Edit

Enabling Smart Sensor Adjustments

After connecting a Solar Sync Sensor to the controller, set up operation in the Devices > Solar Sync menu.

- Press the toggle button to Enable Solar Sync.
- Set the Region and Water Adjustment, according to the Solar Sync manual instructions.
- For normal operations, this is all that is necessary; it will take the Solar Sync Sensor two or three days to register enough climate data to begin adjusting.

Solar Sync Delay

This feature allows a number of days to pass before the automatic Solar Sync adjustment goes into effect (e.g., to establish new landscape). Enter the waiting period in number of days (1 to 250), and specify the Adjustment During Delay percentage to use during the delay period. At the end of the delay, the Solar Sync Sensor will automatically adjust to the current climate conditions. The delay does not interfere with the Solar Sync Rain and Temp functions. They are still able to perform shutdowns due to rain or freezing events during this delay. Complete the setup by setting the programs to use Solar Sync in the Program > Seasonal Adjust menu.

Solar Sync

Solar Sync Settings

Solar Sync Reading

Solar Sync Configuration

Enable Sensor ☒ Disabled

Solar Sync Settings

Region

0

Water Adjustment Factor

0

Delay Days

Solar Sync schedule adjustment will be delayed be 0-250

0

Adjustment During Delay

Water adjustment percent during delay will be 0-300

0

Edit

Solar Sync Reading

Solar Sync Reading provides the values for the previous Solar Sync seasonal adjustment, average ET, current/last three day's ET, last temperature reading, last solar radiation, and last hour temperature/solar radiation reading. Last Communication Time represents the last time the controller updated these values to Hunter360 Software.

Solar Sync	
Solar Sync Settings	Solar Sync Reading
Solar Sync Reading Trend	
Communication Type	Wireless
ET Today Status	0.0 inch
Previous Day ET	0.0 inch
ET Last 2 Days	0.0 inch
ET Last 3 Days	0.0 inch
ET Average	0.0 inch
Valid ET Days	0.0 Days
S.S Seasonal Adjust	100.0%
Last Temp. Reading	0 °C
Last Solar Rad. Reading	0 w/m2
Last 1 Hr Temp. Reading	39 °C
Last 1 Hr Solar Rad. Reading	300 w/m2
Last Communication Time	2024-3-19 15:1

Item Names

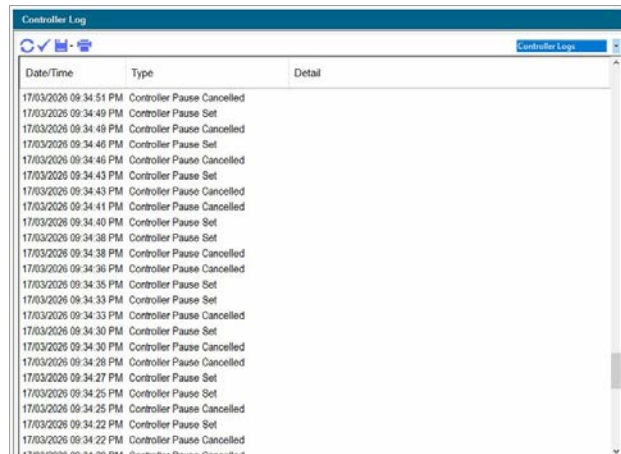
This screen is used to name individual stations within a controller. Click on an existing controller, and the Controller menu will appear. From that list, select Item Names to open this screen, and enter names for each station. Click the Save button to send to the controller.

Items Names	
Stations	
Number	Name
1	AB
2	NEW
3	OLD
4	DEF
5	19BFJN
6	FIMP
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	

Staying Informed with System History

There are three types of logs you can select from the drop-down list at the right corner of the screen.

- **Alarm Logs:** The controller will store up to 250 alarm logs, including the date and time, starting with the most recent alarm. Use the dial to advance forward and backward through the alarm list.
- **Controller Logs:** Other significant messages that are not technically alarms are stored in the controller logs (up to 250 events). They are also arranged by date and time, with the most recent log at the top.
- **Station Logs:** Station logs record every single event that occurs in the controller (up to 1,500 events), starting with the most recent. This can be useful for advanced troubleshooting or verifying that a station has actually watered.
- **Export Logs:** From the Save icon, you can export the controller logs in CSV or JSON format, in addition to printing them.



The screenshot shows a software window titled "Controller Log". At the top, there are icons for a refresh button, a list view, and a save button. Below these is a tab labeled "Controller Logs". The main area contains a table with three columns: "Date/Time", "Type", and "Detail". The table lists a series of events, all of which are "Controller Pause" related, alternating between "Cancelled" and "Set" states. The timestamps are in descending order, starting from 17/03/2026 09:34:51 PM at the top and ending with 17/03/2026 09:34:22 PM at the bottom. A vertical scrollbar is visible on the right side of the table.

Date/Time	Type	Detail
17/03/2026 09:34:51 PM	Controller Pause Cancelled	
17/03/2026 09:34:49 PM	Controller Pause Set	
17/03/2026 09:34:48 PM	Controller Pause Cancelled	
17/03/2026 09:34:46 PM	Controller Pause Set	
17/03/2026 09:34:45 PM	Controller Pause Cancelled	
17/03/2026 09:34:43 PM	Controller Pause Set	
17/03/2026 09:34:43 PM	Controller Pause Cancelled	
17/03/2026 09:34:41 PM	Controller Pause Set	
17/03/2026 09:34:40 PM	Controller Pause Cancelled	
17/03/2026 09:34:38 PM	Controller Pause Set	
17/03/2026 09:34:38 PM	Controller Pause Cancelled	
17/03/2026 09:34:36 PM	Controller Pause Set	
17/03/2026 09:34:35 PM	Controller Pause Cancelled	
17/03/2026 09:34:33 PM	Controller Pause Set	
17/03/2026 09:34:33 PM	Controller Pause Cancelled	
17/03/2026 09:34:30 PM	Controller Pause Set	
17/03/2026 09:34:30 PM	Controller Pause Cancelled	
17/03/2026 09:34:28 PM	Controller Pause Set	
17/03/2026 09:34:27 PM	Controller Pause Cancelled	
17/03/2026 09:34:25 PM	Controller Pause Set	
17/03/2026 09:34:25 PM	Controller Pause Cancelled	
17/03/2026 09:34:22 PM	Controller Pause Set	
17/03/2026 09:34:22 PM	Controller Pause Cancelled	

There are two levels of authorization: Admin and Crew. Crew-level access enables manual operations and the ability to view programming. Only Admins may modify programming and other settings.

The **H360ET** Software Extension is an optional upgrade that enhances the water efficiency of Hunter360 Systems. Designed to operate with Hunter WS-360-TCP Weather Stations, it enables advanced evapotranspiration (ET) scheduling that automatically adjusts application amounts based on local climate conditions.

Need more helpful information on your product?
Find tips on installation, controller programming, and more.



hunter.help/H360

User Management

✓

Users

Account Number	User Name	User Type	User Pin
1	Test	Admin	9999
2	3AZ	Crew	9967
3	ADEL	Admin	9978
4	333333	Admin	9964
5	SEVN	Admin	3333
6		Crew	0
7		Crew	0
8		Crew	0
9		Crew	0
10		Crew	0

☐ User Management Disabled

Security Features

Disable User Management Bypass

Inactive

Disable Factory reset

Inactive

Set

Introduction to Optional ET Scheduling

Evapotranspiration (ET) describes how plants and soil lose moisture to environmental factors. H360ET bases automatic irrigation on sensors that measure the climatic conditions that cause moisture loss. This results in healthier plants with less water waste and runoff.

H360ET adjusts individual station run times to match the climate conditions. It does not change Day schedules or Start Times. While all controller settings will work exactly as they are set up, the stations run times will vary in length, depending on how much watering they require.

The goal of ET-based irrigation is to create enough information for the irrigation zones to water only as much as is required to keep the plants healthy, based on local

climate conditions. During startup of an ET system, many adjustments may be required, but ultimately the system will “follow the weather” and keep plants healthy with maximum water savings.

H360ET requires a complete database for each station (or “zone”) in the irrigation system that it will control. The setup of this database is easy, but the operator is completely responsible for the accuracy of the information and the results of using it. Every system must be carefully observed after initial installation. Most systems require adjustment, at station level, for some time after installation to provide ideal results. Inattention can result in plant damage, loss, and water waste.

Configuration Steps

1. Select ET Settings from the irrigation Schedule.

Select Program ▼ Save Generate Report ET Settings ▶

Global Seasonal Adjustment Start Mode ☐ Stack ☐ Overlap Schedule Type: ▼

Weather Source ▼ Non Water Window Start 0:0 Non Water Window End 0:0 ☐ Ignore Calendar Days Off

Start Times

Start Mode ▼

Start Time 1 0:0

Start Time 2 0:0

Start Time 3 0:0

Start Time 4 0:0

Start Time 5 0:0

Start Time 6 0:0

Start Time 7 0:0

Start Time 8 0:0

Start Time 9 0:0

Start Time 10 0:0

2. From the **General Tab**, adjust the following:

ET Settings

General

Plants Library

Stations Parameters

☐ Enabled

Hour Minute

Sync Time

19 0

Allowable Depletion %

35

Additional ET

0

Additional Rainfall

0

Sync Time: Applies the newly calculated irrigation schedule to the selected controller.

Allowable Depletion: H360ET uses Management Allowable Depletion for its watering philosophy. It attempts to water each station, or zone, to 100% of field capacity of the soil.

The default Depletion % for a new controller is 35%. Each controller's allowable depletion can be adjusted. This setting determines how dry it will allow the zones to become before scheduling irrigation.

Adding New Plants:

- Select Plants Library from the window tabs.
- Press the + button to add new plants.
- In the Name field, type a new name for the plant type.
- Choose the Type. To understand the Type and Variety/ Water Use settings,
- Once you've made this selection, the crop coefficient (Kc) field will fill in automatically. You can change this later. The default Kc settings are based on the Water Use Classification of Landscape Species (WUCOLS) project managed by the University of California, Davis. For more information, visit wucols.ucdavis.edu.
- Root Depth fields populate automatically based on the Plant Type. Adjust as needed to reflect actual site conditions.

ET Settings — □ ×

General **Plants Library** Stations Parameters

+ -

Name	Plant Type	Variety	Kc	Root Depth
Grass Type 1	Grass	Bermuda Grass	0.70	7.2
Grass Type 2	Grass	St. Augustine Grass	0.70	7.2
Grass Type 3	Grass	Zoysia Grass	0.70	7.2
Shrubs	Shrub	Very Low Water Use	0.15	10.8
Groundcover	Groundcover	Medium Water Use	0.65	6.6
Vine	Vine	High Water Use	0.90	7.2
Trees	Tree	Very Low Water Use	0.15	16.8
Perennial	Perennial	High Water Use	0.90	7.2
Desert	Desert	Medium Water Use	0.65	7.2
Shrubs Type 2	Shrub	High Water Use	0.90	10.8

Stations Parameters Tab

ET Settings										
General Plants Library Stations Parameters										
Event Type	Event ID	Programs	PctEtAdjustment	Plant	Maturity	Soil	Sun Exposure	Sprinkler	Precip (in/hr)	Efficiency
Station	12	Program 1	100	Grass Type 1	Established Plant	Sand	Full Sun	Rotor	0.5	0.9
Station	6	Program 1	100	Grass Type 2	New Plant	Loam Sand	Partial Sun	MP Rotator	0.45	0.8
Block	1	Program 1	100	Grass Type 3	Established Plant	Sandy Loam	Partial Shade	Spray	1.6	0.8
Station	17	Program 1	100	Shrubs	Established Plant	Loam	Full Shade	Drip	0.33	0.65
Block	2	Program 1	100	Groundcover	Established Plant	Clay Loam	Full Sun	Bubbler	1.16	0.98
Station	31	Program 1	100	Vine	New Plant	Silt	Full Sun	Custom	1	0.55
Station	7	Program 1	100	Trees	Established Plant	Silty Clay	Full Sun	Rotor	0.5	0.9
Station	8	Program 2	100	Perennial	Established Plant	Clay	Partial Sun	Drip	0.33	0.65
Station	9	Program 2	100	Desert	Established Plant	Loam Sand	Partial Shade	MP Rotator	0.45	0.8
Station	38	Program 2	100	Shrubs Type 2	Established Plant	Loam	Full Shade	Spray	1.6	0.8
Station	11	Program 2	100	Grass Type 3	Established Plant	Silt	Full Sun	Rotor	0.5	0.9

Station Setup

Each station appears in the left column under Name. The row across from each station contains the settings for that irrigation zone.

NOTE

The Station column reflects the station order within the selected program.

Program

Click the drop-down arrow and select the program to assign to the station. Updated run times will appear in the program after the next sync.

ET %

This percentage determines how much of the measured ET is used to calculate moisture loss for the zone. Adjust it to control how much water is automatically applied.

Plant Type

Select a plant type for each station from the list you created.

Maturity

Use the Maturity setting for new plantings that do not yet have fully developed root zones. This setting temporarily increases the watering factor for the zone until the root system is established. Once the preset period ends, the station automatically switches to Established.

Soil

The Soil setting factors in two key characteristics: soil infiltration rate and water-holding capacity. These inputs help determine how water moves through and is retained in the soil.

Sun

Sun exposure is an important factor in irrigation calculations. Select one of the following options for each station:

- **Full Sun:** Direct sunlight for 6 or more hours per day
- **Part Sun:** Approximately 75% exposure, 4.5 or more hours per day
- **Part Shade:** Approximately 50% exposure, 3 or more hours per day
- **Full Shade:** 25% or less exposure, 1.5 hours or less per day

Sprinkler

The Sprinkler setting determines how long a station must run to replace water lost to ET. It preselects a precipitation rate for the station, which tells the system how much water (in inches or millimeters) is applied per minute of run time.

Precip

Precipitation rate is the amount of water a zone applies per hour of run time, measured in inches or millimeters. The software uses this rate to calculate watering depth and automatically adjust run times. Each minute of irrigation corresponds to a specific amount of applied water.

Efficiency

The Efficiency setting adjusts how the precipitation rate affects final run time. It acts as a run-time factor to reflect zone characteristics. This value may also be referred to as Scheduling Coefficient (SC), Irrigation Efficiency (IE), or Distribution Uniformity (DU) in various formulas.

Helping our customers succeed is what drives us. While our passion for innovation and engineering is built into everything we do, it is our commitment to exceptional support that we hope will keep you in the Hunter family of customers for years to come.



Denise Mullikin, President, Landscape Division