BaseStation 1000
Irrigation Controller
Quick Start Guide

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Introduction

Congratulations on purchasing the BaseStation 1000 – a smart irrigation controller designed to provide the features that are essential for intelligent watering.

This quick start guide helps you get familiar with the BaseStation 1000 interface and the buttons on the front panel. It walks you through the basic steps for getting your controller configured for watering. Keep in mind that this guide is intended as a basic overview of the setup – you will find complete instructions for all of the controller's features in the User Manual.

Smart Watering Modes

In addition to time-based watering, the BaseStation 1000 can also be operated in the following smart watering modes:

Soil Moisture Sensor-Based Watering

If you have a Baseline soil moisture sensor (biSensor™) installed in your landscaping and connected to your BaseStation 1000 irrigation controller, you can program the controller to water based on the moisture levels in the soil.

Refer to the following documents on the Baseline website (www.baselinesystems.com):

Configuring Lower Threshold Moisture Sensor-Based Watering in the BaseStation 1000

Configuring Upper Threshold Moisture Sensor-Based Watering in the BaseStation 1000

Weather-Based Watering

When operated in conjunction with BaseManager™ Plus and WeatherAccess™, the BaseStation 1000 irrigation controller meets the EPA WaterSense program's water-efficiency and performance criteria.

You need to have your BaseStation 1000 controller installed and connected to your communication module, and your BaseManager Plus account activated before you can configure the WeatherAccess settings.

Refer to the following document on the Baseline website (www.baselinesystems.com):

WeatherAccess User Manual

On the BaseStation 1000, you can combine Baseline's soil moisture sensor-based intelligent watering technology with the industry's best practices for weather-based irrigation.

Controller Front Panel Layout
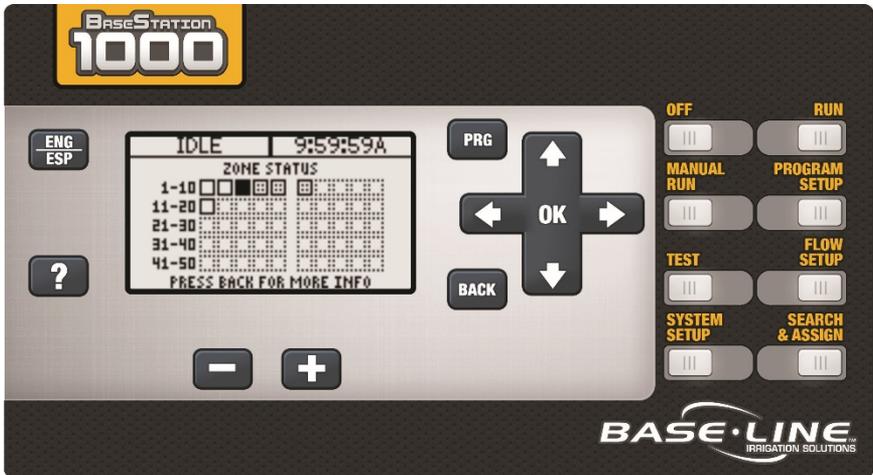
Display – The display indicates the current state of the controller and is used to program the controller. Refer to Setting Up the Screen Display in the User Manual for information about improving image quality in outdoor conditions including direct sunlight and low light.

Main Menu Buttons – The buttons are used to select the various operating or programming menus of the controller. An indicator light glows on the button for the menu that is active.

Buttons – The buttons are used to select programming elements, change their values, and initiate operations like testing a zone.

ENG/ESP	Switch between the English and the Spanish interface on the controller
?	Display help for any screen
+	Increase the value of the highlighted field, or sequences through the available options in the selected field
-	Decrease the value of the selected field, or sequences through the available options in the selected field
PRG	Select the program that you want to modify
Arrow Buttons ⇧⇩⇦⇨	Move within a screen

OK   Select an option or perform an action

BACK   Return to a previous screen or cancel an action

On-Screen Help

Press the **?** button at any time to display the On-Screen Help. When the help displays, press the ⇩ button to scroll through the text. When you have finished using the help, press the **?** button or the **BACK** button to return to the previous screen.

Zone Status Report

When the controller is in the Run menu, the Zone Status report typically displays on the screen.

If you do not see "ZONE STATUS" and the list of zones, press the **RUN** button to make sure that the controller is in the Run menu, and then press the **BACK** button to display the Status Report menu. Select the **Zone Status** option from the menu.

Understanding Zone Statuses

The following icons identify the status of the zones:

Icon	Status	Description
	Unassigned	The zone does not have a biCoder assigned to it
	Done	The complete cycle has finished for this zone – including watering and soaking
	Waiting	The zone is scheduled to run, but currently it is not watering or soaking
	Watering	Watering is in progress
	Soaking	The zone has watered and is now soaking
	Paused	A pause condition is in effect for this zone
	Disabled	The zone is marked as being disabled
	Message	There is a message associated with this zone

Quick Start Your Controller

These instructions walk you through the basic steps for getting your controller configured for watering. Refer to the User Manual for complete instructions for all of the controller's features.

STEP 1 – Install and Connect Devices

Install all of your irrigation devices and connect them to the controller according to the instructions that came with the devices.

STEP 2 – Search For and Assign Devices

Press the **Search & Assign** button on the controller and go through each option to find the devices that you connected to the controller. Assign biCoders to zone numbers and other devices to their ID numbers.

```
         Zone Assignment
      ACTION     |     ZONE
  E012472        |
  D003329        |
  Q006641  ▶     |      1-None
  Q006642        |      2-None
  Q006643        |      3-None
```

STEP 3 – Set the Date and Time on the Controller

Press the **System Setup** button. Highlight the **Time & Date Setup** option, and then press **OK**.

Change all the fields to reflect the current time and date.

Note: If the controller is connected to BaseManager, the time will be automatically set by the server.

```
   Time & Date Setup
Time:              10:59A
Date:        May 7, 2012
Weekday:          Monday
Time Format:       AM/PM

TIME SET THROUGH BASEMANAGER
```

STEP 4 – Set Zone Runtimes

Press the **Program Setup** button. Highlight the **Zone Runtimes** option, and then press **OK**.

Verify that the correct program number displays in the upper-left corner. Press **PRG** to change if necessary.

Press the ⇧ or ⇩ button to move to the zone that you want to set the runtime for. Press the ⇦ or ⇨ button to move to the digits that you want to change. Press the **+** or **–** button to change the time.

```
Prg 1|    Zone Runtimes
1-E012471:        0:30:00
2-E012472:        0:30:00
3-Q006641:        0:30:00
4-Q006642:        0:30:00
5-Q006643:        0:30:00
ZONE 1
```

STEP 5 – Set Watering Start Conditions

A program is not active until you select a start condition for it.
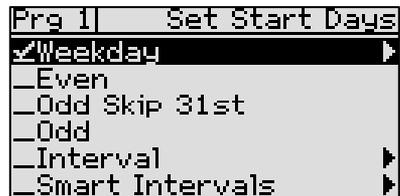
Press the **Program Setup** button. Highlight the **Setup Prg. Start** option, and then press **OK**. For the initial system configuration, we recommend that you set up a **Day & Time Start**. After you verify that your system is watering as expected, you can add other start conditions or switch to a different start condition.

Verify that the correct program number displays in the upper-left corner. Press **PRG** to change if necessary.

Press the ⇩ button to highlight the **Day & Time Start** option, and then press the **+** button to select the option. Press the **OK** button to go to the next menu level.

Press the ⇩ button to highlight the **Set Start Days** option, and then press the **OK** button to go to the Set Start Days screen.

Again, for the initial system configuration, we recommend that you set up the **Weekday** option. After you verify your system is watering as expected, you can change to another start day option.

```
Prg 1|    Set Start Days
✓Weekday                ▶
_Even
_Odd Skip 31st
_Odd
_Interval               ▶
_Smart Intervals        ▶
```

In the Set Weekdays screen, press the ⇨ button to set up the weekdays when you want the program to start. By default, the boxes for the days of the week are marked with a checkmark, which indicates that the program will start every day. If you want to change a start day setting, press the ⇨ button to select the day, and then press the **OK** button to change the setting.

Press the **BACK** button to return to the Day & Time Start menu.

Press the ⇩ button to highlight the **Set Start Times** option, and then press the **OK** button. The Set Start Times screen displays.

Note: Each active program must have at least one start time. Programs that have no start times will not run.

Press the ⇩ button to highlight the box for the start time that you want to change.

Press the **+** or **–** button to change the number in the box.

STEP 6 – Set the Water Windows

Water windows are used to indicate when watering will or will not be allowed.

Press the **Program Setup** button. Highlight the **Water Windows** option, and then press **OK**.

Verify that the correct program number displays in the upper-left corner. Press **PRG** to change if necessary.

```
Prg 1|          Water Windows
Mode:                 Set Week

              Set Hours
12A □□□□□□□□□□□□ 11A
12P □□□□□□□□□□□□ 11P
         Key: □=On ⊠=Off
```

By default, watering is allowed during all hours of the week. Unless you need to comply with water restrictions or set aside a time for mowing, we recommend that you leave the default settings for the water windows.

STEP 7 – Set Soak Cycles

Because each type of soil has a different rate at which it can absorb water, you should set up the cycle time and soak time ("soak cycles") for your zones to ensure that water soaks into the soil instead of being wasted.

Soak Cycle Example: If your zone runtime is 60 minutes and you set up 3 soak cycles with a 40 minute soak time, the zone waters for 20 minutes, and then allows that water to soak in for 40 minutes. While this zone is soaking, other zones can run. After the 40 minute soak time, the zone will be allowed to run another 20 minutes after any zone that is currently running finishes.

```
Prg 1|           Soak Cycles
Soak Cycles:                3
Soak Time:          0:40:00
Intelligent Soak:          ☑
```

Press the **Program Setup** button. Highlight the **Soak Cycles** option, and then press **OK**.

Verify that the correct program number displays in the upper-left corner. Press **PRG** to change if necessary.

If Soak Cycles are set to Off, press the **+** button to replace that setting with a number. Press the **+** or **–** button to set the appropriate number of soak cycles.

Press the ⇩ button to move to the **Soak Time** field and then press the ⇨ button to move to the digits that you want to change. Press the **+** or **–** button to set the time.

Press the ⇩ button to highlight the **Intelligent Soak** field. If you want to enable Intelligent Soak for this program, press the **OK** button to display a checkmark in the field.

When you enable the Intelligent Soak™ feature, the BaseStation 1000 uses intelligent watering algorithms that apply cycles in the optimal order to maximize water penetration and minimize evaporation loss. If there are many zones in a program, zones will be cycled and soaked until all have been completed. Zones that have completed their soak cycles are prioritized higher that zones that are still waiting to water so the first zones to start watering will be the first to complete.

STEP 8 – Set the Controller to RUN

Press the **RUN** button to put the controller in the Run menu. Watering will start when the next start day and time is reached.

If you want to manually start a program, press the **MANUAL RUN** button. Press the ⇩ button to highlight the **Start/Stop Program** option.

If the program is idle, the Start? option displays on the right side of the screen. To start the program, highlight the **Start?** option, and then press the **OK** button. The label to the right of the program number changes to "Running."

```
 Start/Stop Program
Prg 1 (Done):    Start?
Prg 2 (Done):    Start?
Prg 3 (Done):    Start?
Prg 4 (Done):    Start?
Prg 5 (Done):    Start?
PROGRAM 1
```

If the program is running, the Stop? option displays on the right side of the screen. To stop the program, highlight the **Stop?** option, and then press the **OK** button. The label to the right of the program number changes to "Done."

Controller Off

Press the **OFF** button when you want to halt all watering for an indefinite period of time. All current watering cycles will be stopped. No watering cycles will be started. Use this button for seasonal shutdown. DO NOT power down the BaseStation.

When the controller is off, the status "SYSTEM OFF" displays in the upper-left corner of the screen, and the screen displays the Zone Status report.