

Controller Programming System for Commercial and Residential Irrigation Controllers

Owner's Manual and Installation Instructions





The disk supplied with this kit contains the most recent software as of the release date on the disk. Periodic updates to the software can be obtained at no charge to registered users at the Hunter Industries Web site at www.HunterIndustries.com.

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INTRODUCTION

The Hunter SRP programming system is designed to provide enhanced water management capabilities for users of Hunter SRC, Pro-C or ICC series controllers. Using the unique PC-compatible software, you can quickly and easily develop precise watering schedules for one or more controllers. Schedules can be created based upon seasonal or site-specific needs; you can review all information before implementing it with the controller. Once you create a schedule, you can transfer it to the controller using the programmer. The programmer can hold up to two different schedules, which you can copy into an unlimited number of field controllers.

INSTALLING THE SRP SOFTWARE.

The SRP software can be used with the Windows 3.1, Windows 95, or Windows 98 operating systems. Installation is very simple.

- 1. Insert the SRP disk into your computer's 3.5-inch disk drive.
- 2. In Windows 3.1: From the Program Manager, select File, then Run.

or

In Windows 95 and 98: Click on the Start button, then select Run from the program list.

- 3. In the Command Line box (Windows 3.1) or Run Window (Windows 95 and 98), type: A: setup.exe
- 4. Allow the installation program to run. The screens that appear will guide you through the process.
- When you're asked, install the program in the suggested directory, SRP (recommended), unless you have an existing directory that you prefer.
- 6. Once setup is complete, you can use the SRP program immediately.

Note: In Windows 95 or 98, you can complete the installation by dragging the SRP icon onto your desktop in order to make starting the program easier:



a) Wait for the SRP program window to display at the end of the installation.

b) Move the cursor over the SRP icon, hold down the left mouse button, and drag the icon from inside the window onto the desktop. Release the mouse button when the icon is where you want it.
c) The next time you start your computer, simply click on the SRP icon on the desktop to start the program.

SETTING UP A WATERING PROGRAM ...

Once the SRP software is installed in your computer, you can use it to create, analyze, and store irrigation schedules. You can then load these schedules into the SRP Programmer device, which can be used to program an unlimited number of SRC, Pro-C or ICC controllers. The programmer device can be re-programmed and reused an unlimited number of times.

CREATE A NEW OR EXISTING SCHEDULE

After clicking the SRP icon, a screen will appear giving you the option to "Create a New Setup" or "Open an Existing Setup". Choose a new setup unless you have a previously saved SRP program. (Figure 1)



CUSTOMER AND CONTRACTOR INFORMATION

After choosing "Create a New Setup", the "Customer and Contractor Information" screen will appear. This is an optional section that allows the irrigation professional to create a door reference chart that can be used later for quick reference. Fields are provided for both customer and contractor contact information. The contractor company logo can also be entered so that it prints on the top of the form. (Logo must be 100 X 100 pixels, .83 in. x .83 in., or 2.11 cm. x 2.11 cm.) In addition to information about the customer and contractor, there is also space for a short description of each of the stations. The chart can then be printed out and stored close to the controller for later reference. Click on **OK** to continue or when form is complete. (Figure 2)

Figure 2	Customer and Contractor Information	×
5	Customer OK	
	Name Job/Account	
	Address	
	Phone Installation	
	- Irrigation Professional	_
	Name Logo File	
	Address	
	Phone Fax	
	_ Stations	
	Station Description Station Description Station Description	n
	5 6 7 8	
	9 10 11 12	
	13 14 15 16	

SELECT CONTROLLER MODEL

Begin by specifying what controller model you're scheduling. The SRP software supports three different types of controllers:

- Hunter SRC series of controllers
- Hunter Pro-C series of controllers
- Hunter ICC series of controllers

If you selected "**Create a New Setup**" the program will automatically take you through all the steps you will need to setup a complete program. If you would like to setup your controller in a different manner, you can click **Cancel** at any time to go to the main screen. To set up a schedule for an SRC, choose **SRC**, then model **600** (six-station) or **900** (nine-station). For the Pro-C, click on **Pro-C**, and then specify the number of stations, from **3** to **12**. For the ICC, click on **ICC**, and then specify the number of station, from **8** to **48**. When you're done, choose **0K**. You're now ready to set up a schedule for the controller model you've selected. (Figure 3)

For instructions on setting up the **SRC** controller continue with instruction listed on page 6. For instructions on setting up the **Pro-C** controller turn to page 11. For instructions on setting up the **ICC** controller turn to page 19.



Note: To switch to a different controller at another time choose Setup from the main menu, then Controller Model. When this is done a reference screen will appear on the screen prompting you to save your setup. See "Saving Your Watering Schedule", for more information on how to save your setup. (Figure 4)





SRC: SETUP TYPE.....

On the Setup Type screen you can choose whether to setup all your program information together or separately. Your choices are **Setup All, Start Times, Station Run Times**, or **Water Days**. (Figure 5)

Figure 5



SRC: SETUP ALL

The Setup All option gives you a handy way to view all programs, start times, run times, and water days on a single screen. If you choose, you can make schedule changes here, or use the individual menu items. You can view and make changes to each program's start times, run times, and water days here. Also, you can change the clock mode and date. (Figure 6)



Note: A skip function is available for each field. This function is helpful when making revisions to an existing program. By selecting skip for a specific item, the data will not be changed in the controller when the new program is uploaded into the controller. For example, the SRP will automatically change the time on the controller to the time when the new program was downloaded to the SRP module. To prevent changing the time, selecting skip for the clock mode would be recommended.

Clock Mode Skip O AM/PM O 24 Hour Date and Time Skip Year 2000 Month Day Hour 12AM Program A Program B Program C Skip Start Time 1 6:00AM Skip Skip Start Time 2 Start Time 2 Start Time 2 Start Time 2 Start Time 3 Off Start Time 3 Start Time 3 Start Time 4 Off Start Time 4 Start Time 4 Water Days Water Days Water Days Water Days	DK Cancel Minute 0 *
Date and Time Skip Year 2000 Month 1 Day 1 Program A Program B Start Time 1 Start Time 2 Start Time 3 Start Time 4 Water Days	Minute 0
Skip Year 2000 Month 1 Day 1 Hour 12AM Program A Program B Program C Skip Start Time 1 6:00AM Skip Skip Start Time 2 Start Time 3 Off Start Time 3 Start Time 3 Start Time 3 Start Time 3 Start Time 4 Off Start Time 4 Start Time 4 Start Time 4 Start Time 4 Water Days Water Days Water Days Water Days Start Time 4	Minute 0
Program A Program B Program C Skip Start Time 1 6:00AM Skip Skip Start Time 2 Off Start Time 2 Off Start Time 2 Off Start Time 3 Off Start Time 3 Off Start Time 3 Off Start Time 4 Off Start Time 4 Off Start Time 4 Off Water Days Water Days Water Days	7:00AM
Skip Skip Skip Start Time 1 6:00AM Skip Start Time 1 5:00AM Start Time 2 Off Start Time 2 Off Start Time 2 Off Start Time 3 Off Start Time 3 Off Start Time 3 Off Start Time 4 Off Start Time 4 Off Start Time 4 Off Water Days Water Days Water Days	7:00AM
Run Times Skip Skip Station Skip Station Skip Station Monday 1 15 Mednesday Vednesday Vednesday Vednesday Saturday Saturday Saturday Solution Sector Sector Skip Station Vednesday Vednesday Saturday Solution Solution<	Off

SRC: SET START TIMES

The SRC supports *four* start times for each of its *three* programs.

- 1. Choose AM/PM, or a 24-hour (military time) clock
- 2. To set a start time, move the cursor to the arrow buttons next to the time, and hold down the left mouse button to adjust the dial up or down. The "Off" setting is found between 11:45 p.m. and 12 a.m.
- 3. When you're done, choose **OK** to save the watering schedules you've set up.

You can return at any time and change any of the times you've set. To change start times at a later time choose **Setup**, then **Start Times** (or press Alt-S-S). (Figure 7)

Fi	g	u	r	e	7
	~				

Start	Times									×
		-Clock Mo	de —							
		Skip 🗖		⊙ AM/PM	0.24	4 Hour		<u>_</u>	<u>0</u> K	<u>C</u> ancel
- Pro <u>c</u>	jram A ——		_ Prog	ıram B ———		_ Pro <u>c</u>	jram C —]	
Skip	Start Time		Skip	Start Time		Skip	Start Tin	ne		
	1 6:00/	AM		1 5:00AM			1 7:0	OAM		
	2 Off	×		2 Off	-		2 Off	* *		
	3 Off	▲ ▼		3 Off	<u> </u>		3 Off	* *		
	4 Off	* *		4 Off	×		4 Off	* *		

SRC: SET STATION RUN TIMES

The SRC supports run times from 0-99 minutes on all stations for all programs.

- 1. To set a run time, move the cursor to the arrow buttons next to the time, and hold down the left mouse button to dial up or down.
- 2. When you're done, click on OK to save the water days you've set up.

You can return at any time and change any of the run times you've set. To change run times at a later time choose **Setup**, then **Station Run Times** (or press Alt-S-R). (Figure 8)

Station Run Times (min	utes)			×
			<u>0</u> K	<u>C</u> ancel
Program A	– Program B –––––	Program C		
Station 1 15 2 15 3 20 4 4 5 7 6 4	Skip Station 1 0 2 0 3 0 4 15 5 0 6 0	Skip Station 1 0 * 2 0 * 3 0 * 4 0 * 5 20 * 6 60 *		

SRC: SET WATER DAYS

The SRC supports days-of-the-week and odd/even-days watering. Only one watering option can be selected for any one program.

- 1. For each program, click in the box to select specific days to water, Even Days or Odd Days.
- 2. When you're done, click on **OK** to save the water days you've set up.

You can return at any time and change any of the days you've set. To change the water days at a later time choose **Setup**, then **Water Days** (or press Alt-S-W). (Figure 9)

....................



Note: If you wish to cancel any settings that you have just made, choose Setup, then New.



ater Days			
Program A	Program B	Program C	
Skip 🗖	Skip 🗖	Skip 🗖	
☑ Sunday	🗖 Sunday	🗖 Sunday	
🗹 Monday	🗹 Monday	🗖 Monday	
🗹 Tuesday	🗖 Tuesday	🗖 Tuesday	
🗹 Wednesday	🗹 Wednesday	🗖 Wednesday	
🗹 Thursday	🗖 Thursday	🗖 Thursday	
🗹 Friday	🗹 Friday	🗖 Friday	
🗹 Saturday	🗖 Saturday	🗖 Saturday	
🗆 Even Days	🗖 Even Days	🗖 Even Days	
🗖 Odd Days	🗖 Odd Days	🗹 Odd Days	
		<u>0</u> K	<u>C</u> ancel

PRO-C: SETUP TYPE.....

On the Setup Type screen you can choose whether to setup all your program information together or separately. Your choices are **Setup All, Start Times, Station Run Times, Water Days** or **Advanced Features**. (Figure 10)

Figure 10



PRO-C: SETUP ALL

The Setup All option gives you a handy way to view all programs, start times, run times, and water days on a single screen. If you choose, you can make schedule changes here, or use the individual menu items. You can view and make changes to each program's **Start Times**, **Run Times**, and **Water Days** here. Also, you can change **Water Budgeting**, **Clock Mode** and the **Date**. (Figure 11)



Note: A skip function is available for each field. This function is helpful when making revisions to an existing program. By selecting skip for a specific item, the data will not be changed in the controller when the new program is uploaded into the controller. For example, the SRP will automatically change the time on the controller to the time when the new program was downloaded to the SRP module. To prevent changing the time, selecting skip for the clock mode would be recommended.

All		>
Skip 100%	Clock Mode Skip ⊙ AM/PM_ © 24 Hou	rr <u>O</u> K <u>C</u> ancel
Date and Time Skip Year 2001	Month 3 Day 11	Hour 12AM Minute 0
Program A	Program B	Program C
Skip Start Time 1 6:00AM Start Time 2 Off Start Time 3 Off Start Time 4 Off	Skip Start Time 1 Start Time 2 Start Time 3 Off Start Time 4	Skip Start Time 1 Start Time 2 Start Time 3 Off Start Time 4
Skip Run Times Sunday V Monday Skip Station 1 0:15 V Wednesday 2 0:15 V Friday 3 0:20 4 0:00 5 0:00	Run Times Event Day Off Event Day Off Skip Station Tuesday 2 0:00 Wednesday 3 0:00 Saturday 4 0:15 Odd Days 5 0:00 Hinterval 5 0:00 Remaining	Run Times Skip [Event Day Off Skip Station 1 0:00 2 0:00 Friday 3 0:00 Ø Even Days 4 0:00 Odd Days 1 Interval Interval Interval Interval Remaining

PRO-C: SET START TIMES

The Pro-C supports *four* start times for each of its *three* programs.

- 1. Choose AM/PM, or a 24-hour (military time) clock.
- 2. To set a start time, move the cursor to the arrow buttons next to the time, and hold down the left mouse button to dial up or down. The "Off" setting is found between 11:45 p.m. and 12 a.m.
- 3. When you're done, choose **OK** to save the watering schedules you've set up.

You can return at any time and change any of the times you've set. To change start times at a later time choose **Setup**, then **Start Times** (or press Alt-S-S). (Figure 12)

Start Times		
Clock M Skip 🗖	ode © AM/PM	C 24 Hour
Program A	Program B	Program C
Skip Start Time	Skip Start Time	Skip Start Time
□ 2 0ff ★	C 2 Off	
□ 3 Off ▲	🗖 3 Off	
□ 4 Off ▲	□ 4 Off	

PRO-C: SET STATION RUN TIMES

The Pro-C supports run times from **0-6 hours** for stations assigned to programs **A**, **B**, or **C**. You can also use a **Water Budget** setting on the Pro-C controller.

1. To set a run time, move the cursor to the arrow buttons next to the time, and hold down the left mouse button to dial up or down.

Water Budget: With the Pro-C controller, you can use this setting to adjust your overall watering amount by season without adjusting run times individually. The water budget can be set from 10% to 150% in 10% increments. For example, in the rainy season, you can reduce watering by half by setting water budget to 50 percent. Every run time automatically will be reduced by half. Likewise, run times can be increased up to 50 percent during dry periods.

Note: Even with water budgeting you cannot increase station run times beyond six hours.

It is recommended that water budget be set a 100% for the downloaded program and then used on the controller to adjust for minor weather changes.

2. When your done, choose **OK** to save the watering schedule you've selected.

You can return at any time and change any of the run times you've set. To change the run times at a later time choose **Setup**, then **Station Run Times** (or press Alt-S-R). (Figure 13)

Figure 13	Station Run Times (minute:	s)		X
		Water Budget Skip∏ 100%	×	<u>O</u> K <u>C</u> ancel
	Program A	Program B	Program C	
	Skip Station	Skip Station	Skip Station	
	3 0:00	3 0:00	3 0:00	
	4 0:00	4 0:00	4 0:00	
	5 0:00 🗲	5 0:00	5 0:00	
	□ 6 0:00 •	6 0:00	6 0:00	

PRO-C: SET WATER DAYS

The Pro-C supports specific days-of-the-week and odd/even-days watering, as well as interval watering. Only one watering option can be selected at any one time for any one program. (Figure 14)

.....

• Selecting specific days of the week to water

For each program, click in the box to select specfic days to water.

• Selecting interval watering

For each program, click in the box interval. You have a choice to select an interval from 1 to 31 days. The days remaining indicates how many days until the next watering.

• Selecting odd or even days to water

Using the instructions for interval watering, set the interval to one. Select whichever you choose as no water days. If you select odd days as no water days, then the Pro-C will only water on even days of the month.



Notes: When interval watering is used, days remaining cannot exceed the number of days in the interval.

If you wish to cancel any settings that you have just made, choose Setup, then New.

• Selecting event day(s) off

Programming in a no water day(s) is useful to inhibit watering on mowing days, etc. Enter interval watering schedule as described above. Click on the day you wish to set as a no water day. The O will illuminate over this day.



₩ater Days



PRO-C: ADVANCED FEATURES

When you select the Pro-C under Controller Model, another option becomes available on the Setup menu: **Advanced Features**. This allows you to set the following special features for a Pro-C controller: (Figure 15)

Programmable Delay Between Stations

You can set a programmable delay between stations in 1-second increments, up to 1 minute, then in 1-minute increments to 4 hours.

Pump Master/Valve Operation

The Pro-C supports a programmable master valve or pump. Click on any station or stations that will use the master valve or pump circuit. A check 🗸 mark will show in the box when the pump circuit is on.

Advanced Features		
Skip Programmable Delay(second)	30	
Station1 Skip I Master Valve	⊤Station2 Skip □ ☑ Master Valve	Station3 Skip I Master Valve
Station4 Skip I I Master Valve	Station5 Skip I I Master Valve	Station6 Skip I Master Valve
Station7 Skip © Master Valve	Stationg Skip I Master Valve	Station9 Skip
	V	OK Cancel

ICC: SETUP TYPE

On the Setup Type screen you can choose whether to setup all your program information together or separately. Your choices are **Setup All**, **Start Times**, **Station Run Times**, **Water Days**, or **Advanced Features**. (Figure 16)



ICC: SETUP ALL.

The Setup All option gives you a handy way to view all programs, start times, run times, and water days on a single screen. If you choose, you can make schedule changes here, or use the individual menu items. You can view and make changes to each program's **Start Times**, **Run Times**, and **Water Days** here. Also, you can change **Water Budgeting**, **Clock Mode** and the **Date**. (Figure 17)



Note: A skip function is available for each field. This function is helpful when making revisions to an existing program. By selecting skip for a specific item, the data will not be changed in the controller when the new program is uploaded into the controller. For example, the SRP will automatically change the time on the controller to the time when the new program was downloaded to the SRP module. To prevent changing the time, selecting skip for the clock mode would be recommended.

Al						X
ľ	¥ater Budget Skip∏ 100%	C S	lock Mode kip 🗖 🛛 💿 AM	/PM © 24 Hou	II .	<u>O</u> K <u>C</u> ancel
- [ç	Date and Time── Skip□	Year 2000	Month 1	Day 1 🚔	Hour 12AM	Minute 0
	Program A		Program B		Program C	
	Skip Start Time Start Time Start Time Start Time Start Time	1 6:00AM	Skip Start Time 1 Start Time 2 Start Time 2 Start Time 3 Start Time 4	5:00AM	Skip Start Time 1 Start Time 2 Start Time 2 Start Time 3 Start Time 4	7:00AM
	Skip Station 1 0:15 2 0:15 3 0:20 4 0:00 5 0:00 6 0:00	SKIP V Sunday V Monday V Luesday V Hednesday V Truday V Friday Saturday E Ven Days Odd Days Interval Interval Remaining	Aun Times Skip Station 1 0:00 2 0:00 3 0:00 4 0:15 5 0:00 6 0:00	Skip Sunday Vednesday Vednesday Thursday Veriday Saturday Even Days Odd Days Interval Interval Remaining	Skip Station 1 0:00 2 0:00 3 0:00 4 0:00 5 0:20 6 1:00	Skip Sunday Monday Tuesday Vednesday Friday Saturday Even Days Odd Days Interval Interval Remaining 2

ICC: SET START TIMES

The ICC supports *eight* start times for each of its *four* programs.

- 1. Choose AM/PM, or a 24-hour (military time) clock.
- 2. To set a start time, move the cursor to the arrow buttons next to the time, and hold down the left mouse button to dial up or down. The "Off" setting is found between 11:45 p.m. and 12 a.m.
- 3. When you're done, choose **OK** to save the watering schedules you've set up.

You can return at any time and change any of the times you've set. To change start times at a later time choose **Setup**, then **Start Times** (or press Alt-S-S). (Figure 18)

Start	Times										X
		-Clock M Skip 🗂	ode — (⊙ AM/PM	02	4 Hour		0	K	<u>C</u> ar	ncel
	L	•						<u></u>			
Prog	gram A ——		Prog	ıram B ———		Prog	gram C ———		Prog	jram D ——	
Skip	Start Time 1 6:00/	AM ¥	Skip	Start Time 1 5:00A⊮		Skip	Start Time 1 7:00AM	▲ ▼	Skip	Start Time 1 Off)
	2 Off	*		2 Off	<u> </u>		2 Off	•		2 Off	•
	3 Off	▲ ▼		3 Off	* *		3 Off	▲ ▼		3 Off	×
	4 Off	*		4 Off	* *		4 Off	*		4 Off	•
	5 Off	▲ ▼		5 Off	•		5 Off	•		5 Off	•
	6 Off	•		6 Off	- -		6 Off	▲ ▼		6 Off	▲ ▼
	7 Off	×		7 Off	<u> </u>		7 Off	* *		7 Off	×
	8 Off	*		8 Off	•		8 Off	•		8 Off	•

ICC: SET STATION RUN TIMES.....

The ICC supports run times from **0-2 hours** for stations assigned to programs **A**, **B**, or **C** and **0-12 hours** for stations assigned to program D (typically the drip program). You can also use a **Water Budget** setting on the ICC controller.

1. To set a run time, move the cursor to the arrow buttons next to the time, and hold down the left mouse button to dial up or down.

Water Budget: With the ICC controller, you can use this setting to adjust your overall watering amount by season without adjusting run times individually. The water budget can be set from 10% to 150% in 10% increments. For example, in the rainy season, you can reduce watering by half by setting water budget to 50 percent. Every run time automatically will be reduced by half. Likewise, run times can be increased up to 50 percent during dry periods.

However, bear in mind that water budgeting won't increase beyond two hours for programs A, B, and C, or 12 hours for program D. **Note**: Even with water budgeting, you cannot increase your run times beyond the maximum allowable for the controller.

It is recommended that water budget be set a 100% for the downloaded program and then used on the controller to adjust for minor weather changes.

2. When you're done, choose **OK** to save the watering schedule you've selected.

You can return at any time and change any of the run times you've set. To change the run times at a later time choose **Setup**, then **Station Run Times** (or press Alt-S-R). (Figure 19)



ICC: SET WATER DAYS..

The ICC supports days-of-the-week and odd/even-days watering, as well as interval watering. Only one watering option can be selected at any one time for any one program.

- 1. For each program, click in the box to select specific days to water, Even Days or Odd Days, or Interval watering.
- 2. When you're done, click on **OK** to save the water days you've set up.

You can return at any time and change any of the days you've set. To change the water days at a later time, choose **Setup**, then **Water Days** (or press Alt-S-W). (Figure 20)



Note: When Interval watering is used, days remaining cannot exceed the number of days in the interval.

Note: If you wish to cancel any settings that you have just made, choose Setup, then New.



ICC: ADVANCED FEATURES

When you select the ICC model under Controller Model, another option becomes available on the Setup menu: **Advanced Features**. This allows you to set the following special features for an ICC controller: (Figure 21).

Programmable Delay Between Stations: You can set a programmable delay between stations in 5-second increments, up to a maximum of 1 minute 40 seconds. This delay is typically used in commercial applications to allow for the slow closing speed of large valves.
 Pump/Master Valve Operation: The ICC supports a programmable master valve or pump. Use an X to designate any station or stations that will use the master valve or pump circuit.

Cycle and Soak Settings: The Cycle and Soak feature allows the user to split each station's run time into more usable, shorter duration waterings. This feature is particularly applicable for slopes and tight soil (such as clay) because Cycle and Soak will help prevent excessive run off. You should enter the Cycle time as a fraction of the station's watering time and the Soak time as the minimum soak required before watering the next portion. The total number of cycles is determined by taking the total programmed station run time and dividing it by the Cycle time.

The cycle time can be set between **1** and **60** minutes. The ICC allows you to break up a run time into several cycles, each with a specific cycle time. The soak time is the *minimum* time the controller will delay between cycles. The soak time can be set to any number from **1** to **60** minutes. A default soak time of 30 minutes is set up automatically.

Advanced Features		×
Skip Programmable Delay(minute:s	second) 0:00	
Station1 Skip □ ☑ Master Valve □ Cycle Time(minute) 0ff ★ □ Soak Time(minute) 30	Station2 Skip CMaster Valve Cycle Time(minute) Soak Time(minute) 30	Station3 Skip Master Valve Cycle Time(minute) 017 Soak Time(minute) 30
Station4 Skip □ ☑ Master Valve □ Cycle Time(minute) 0ff ★ □ Soak Time(minute) 30	Station5 Skip □ ☑ Master Valve □ Cycle Time(minute) 0ff ↓ □ Soak Time(minute) 30	Station6 Skip Master Valve Cycle Time(minute) 000 Soak Time(minute) 30
Station7 Skip □ ☑ Master Valve □ Cycle Time(minute) 0ff ★ □ Soak Time(minute) 30	Stationg Skip Cycle Time(minute)	Station9 Skip Ø Master Valve Cycle Time(minute) 000 Soak Time(minute) 30
		OK

SAVING YOUR SCHEDULE/CREATING MULTIPLE SCHEDULES.....

Once you've chosen a controller model and entered the irrigation schedule, run times and watering times, you can save the program for later use. You can build any number of different watering programs by saving the information you enter under different file names. For example, you might want a SMITH schedule, a JONES schedule, and so forth. (Note: If you are running Windows 3.1 or 3.11, you are limited to eight characters in your file name. If you are running Windows 95, there is no such limit).

To save a schedule you have set up, choose **File**, then **Save**. In the **Save As** dialog box, enter the name of the file, such as the examples given above. Leave the ".dat" extension, since that identifies the file to the SRP software as a data file. Often, it may be easier to copy a schedule you've already set up, make modifications, and save it under a new name.

To do that:

- Open the schedule you want to copy (choose File, then Open)
- From the File menu, select Save As, and give the schedule a new name.
- Now make changes to the (new) schedule as you wish.

To open an existing watering schedule:

Before you download a watering schedule to a controller, you must open the schedule using the SRP software. To do so, choose **File**, then **Open**. Then select the watering schedule you want. If you make changes to the schedule, be sure to save it by using **File**, then **Save**, to preserve the changes.

For convenience, the SRP software automatically saves the file in the "srpcomm" file already created during installation. You can save it elsewhere if you choose.

VIEW A WATERING SCHEDULE

The SRP software presents a concise view of each watering schedule by day or week. To view a schedule:

- 1. Open the schedule you want to view using File/Open.
- 2. From the View menu, select either Week or Day.

Viewing a day: Select a day, either by clicking on the arrows to the right and left of the date shown, or by clicking on Select a Day and choosing the date.

You can zoom in on a portion of the schedule by clicking on the magnifying glass at the lower right of the window, then moving to the schedule and clicking again. (Figure 22)

Weekly \	₩atering Sch	nedule						>
				<u>S</u> elect A Wee	:k			
	1/1/00	1/2/00	1/3/00	1/4/00	1/5/00	1/6/00	1/7/00	
_	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
Station								
1	Prog a	Prog a	Prog a	Prog a	Prog a	Prog a	Prog a	7
2	Prog a	Prog a	Prog a	Prog a	Prog a	Prog a	Prog a	1
3	Prog a	Prog a	Prog a	Prog a	Prog a	Prog a	Prog a	Ī
4	Off	Off	Prog b	Off	Prog b	Off	Prog b	Ī
5	Off	Prog c	Off	Prog c	Off	Prog c	Off	Ĩ
6	Off	Prog c	Off	Prog c	Off	Prog c	Off	Ī
		-	-	-	-		-	-
							C	
					<u> </u>		Lance	ei

Viewing a week: You can view the schedule for any week. This view will show you which programs will run on which days. (Figure 23)

Dail	y Watering	Schedule								×
				S	aturday	1/1/00		Select A	Day	
	12:00AM	1:00AM	2:00AM	3:00AM	4:00AM	5:00AM	6:00AM	7:00AM	8:00AM	
Stat	ion						_			-
1			-		1]
2										
3										
4]
5]
6		-	1			-			1	1
	_ Prog	ram A ——	Progr	am B —	_ Progra	am C —				_
	Start	Time 1 🔳	Start	Time 1 🔲	Start 1	ime 1 🔳			۲	2
	Start	Time 2	Start	Time 2	Start 1	ime 2 🔲				$\overline{\mathbf{x}}$
	Start	Time 3	Start	Time 3 📕	Start	ime 3 🔲				
		· · · · ·								OK I
										UK
									1	<u>C</u> ancel
										<u>O</u> K Cancel

COMMUNICATION PORT.

The Communication Port setting tells the SRP software to which port the SRP programmer will be attached. (Other items, like a mouse and printer, can be attached to other ports.) Select the port you'll be using from the list.



Note: The SRP software will automatically choose the correct port if you attach an SRP Programmer, then select Auto Detect.

DOWNLOAD TO SRP PROGRAMMER

Once you've set up a watering schedule, you can download it to the SRP Programmer. Each SRP programmer can hold two separate schedules, one in each data bank.

- 1. Select **Download**, then **To SRP**.
- 2. Plug the SRP into the correct communications port. (This is the port that you designated under Setup/Communications Port.)
- 3. Select the data bank you want to copy the schedule into (1 or 2).
- 4. Choose Start, and wait for copying to complete. Then unplug the SRP transport; it's ready to use.

Figure 24	Download to SRP
	 Plug SRP into communication port Select "Data Bank" to download to Click "<u>St</u>art" button to begin download
	Data Bank O Bank 1 @ Bank 2
	Completion 0%
	<u>Start</u>

INSTALLING THE SMARTPORT[®] ON THE CONTROLLER.

The SRP kit is shipped with a SmartPort[®] wiring harness, allowing for fast and easy use of the Hunter SRP and SRR remote control.

To utilize the SRP Control System you must install the SmartPort® outlet.

- 1. Install a female threaded "Tee" in the field wiring conduit approximately 12" below the ICC or use the knockout on the right side of the plastic controller cabinet.
- 2. Feed the red, white, and blue wires of the harness through the base of the "Tee" and into the wiring compartment as shown in Figure 25.
- 3. Screw the SmartPort $^{\odot}$ harness housing into the "Tee" as shown in Figure 25.
- 4. Access the terminal strip area and attach the red wire to the bottom most **AC** screw slot, attach the white wire to the upper **AC** screw slot and attach the blue wire to the screw slot marked "**REM**".

The SmartPort[®] is now ready for SRP programming.



NOTE: Any extension of the wiring on the SmartPort[®] may result in an error message in the controller display and possible malfunction of the remote unit due to radio interference. In some situations, lengthening of the harness may work fine, in others it may not work at all (it is site specific). In either case, extending the wiring harness should be done using shielded cable to minimize the possible effects of electrical noise. For easiest installation, order a new Hunter SmartPort[®] shielded cable wiring harness (part #SRR-SCWH) with a full 25 feet of shielded cable.



OPTIONS

You can easily change your screen colors with this option. This is especially useful for making a screen, such as a notebook computer, more readable.

- 1. Select Options, then either Foreground Color or Background Color (Figure 26).
- 2. Choose a new color from the palette, or create your own custom color.
- 3. Click **OK** to save your new color.



USING THE SRP PROGRAMMER TO PROGRAM A CONTROLLER...

Once you've downloaded a schedule or schedules from the computer into the SRC Programmer, you can use the programmer in the field to program Hunter SRC, Pro-C or ICC controllers.

- 1. Install the Hunter SmartPort[®] connector (included in this kit) on the controller. Installation instructions for the harness are on an index card contained in this kit. If your current controller does not have a SmartPort[®] connector, refer to the drawing included with the installation kit.
- 2. Plug the SRP Programmer into the harness. The LED on the Transport should be illuminated and green.
- 3. Now select which data bank to program the controller with. Press the button on the SRP labeled either "1" or "2" to program the controller with the schedule in that data bank (Figure 27).

Once you press either button 1 or 2, the green LED will change to red, telling you that programming is underway. After the programming is complete, the LED changes back to green, and the word Done displays at the controller. You can then unplug the SRP Controller from the harness. The controller is ready to use.



Note: The SRP does not keep track of time, so remember to enter the correct time of day after uploading. See the SRC, Pro-C or ICC Setup All section above for information on skipping the time/ date field. Figure 27

To Controller



INFORMATION ABOUT YOUR SPRINKLER SYSTEM

Date of Installation:
Contractor Installing System:
· · ·
ddress:
Phone:
ocation of Control Valves:
ocation of Weather Sensor:
ocation of Main Water Supply Shutoff:

FCC NOTICE

This controller generates radio frequency energy and may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient the receiving antenna
- Move the controller away from the receiver
- Plug the controller into a different outlet so that controller and receiver are on different branch circuits

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C., Stock No. 004-000-00345-4 (price - \$2.00 postpaid).

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