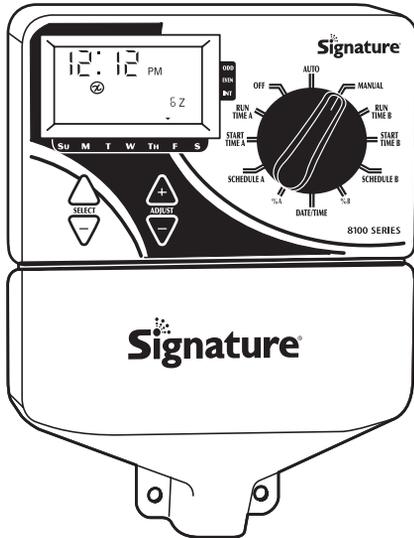


# Signature<sup>®</sup>

CONTROL SYSTEMS, INC.



# EZINDOOR<sup>™</sup>

## 8100 Series Irrigation Controller

- 8124US

## Installation & Programming Guide

[www.scs-share.com](http://www.scs-share.com)

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## FEATURES

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- Signature exclusive SELECT&ADJUST programming
- Two independent programs
- Three start times per program (6 total starts)
- Stacking start times
- Three scheduling options to suit the needs of plant material or to comply with watering restrictions (days of the week, 1-30 day interval, true odd/even)
- Will accept Normally Closed Rain Sensor
- Leap year compatible-automatically includes Feb 29th every four years
- Manual Test Feature
- Programmable run times from one minute to 6 hours
- Self resting polyswitch for short-circuit protection

## INSTALLATION INSTRUCTIONS

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The EZ Indoor™ 8100 Series can be easily mounted indoors. Find a location near a 120V receptacle (230/240V for IT, FR, PT & ES models). Install the EZ Indoor™ near eye level if possible. Install the top screw in the wall and adjust the depth for a snug fit when the controller is suspended on the screw. Remove the wiring skirt and suspend the controller on the first mounting screw and insert and tighten the other 2 screws through the lower hole provided in the case (pre-drilled or use anchors as necessary).

### LOW VOLTAGE WIRING

Low voltage output cables should be enclosed in conduit affixed near the controller. (For field connection, AC wires must have an insulation rated at 75° C minimum). Conduit should be secured near the case (follow local codes). Field wiring is best accomplished with the AC disconnected from the unit. **Terminal Strip:** All zone & pump wire connections made inside the EZ Indoor™ utilize screw type connectors that require a small screwdriver. The terminal strips in the controller accept 14 AWG (1.6mm) wire or smaller. (See figure 1)

### CONNECTING MASTER VALVE OR PUMP-START RELAY

The EZ Indoor™ is equipped with a shared circuit to operate either a pumpstart relay or a master valve. Connect one wire from the pump-start relay to COM (common) on terminal strip, the other to P(pump/master valve) on the terminal strip. Refer to the pump-start relay manufacturer's instructions for specific installation details. (See figure 1)

### CONNECTING RAIN/MOISTURE SENSOR

The EZ Indoor™ is able to operate a sensor with normally-closed leads. To install a sensor, insert one lead from the sensor to the Common terminal & the other lead to the Field Common wires. Refer to the sensor manufacturer's instructions for specific installation details. (See figure 1)

### CONNECTING THE TRANSFORMER

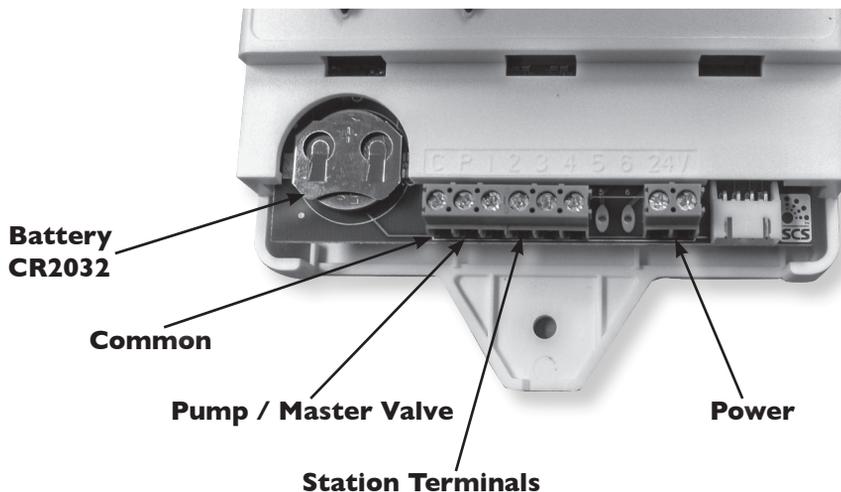
120VAC in United States, Canada and Mexico; 230 VAC in Europe, and 240 VAC in Australia and South Africa

**NOTE: Refer to and follow local codes if different from these instructions.**

**CAUTION: Disconnect 120V power (230/240V for IT, FR, PT & ES models)**

Connect the AC Power cable to the right side of the terminal strips and route the cable through the slot provided in the case. Attach the wiring skirt to the unit. Plug the AC power adaptor into the nearest receptacle.

**Figure 1**



# PROGRAMMING INSTRUCTIONS

## PROGRAMMING OVERVIEW

Before programming the EZ Indoor™, it may be helpful to become familiar with some general programming guidelines:

- If a segment(s) on the LCD is flashing, it means that it can be changed by the using the adjust keys.
- When using keys, hold the button three seconds to start a fast scroll.
- Be sure the appropriate program letter is displayed when you are programming; program changes are specific to the program letter displayed on the LCD.
- There is no “ENTER” key. Key-presses and dial settings are stored automatically for you.
- If you make a programming change while a program is running, the program terminates immediately. The new program starts at the next start time scheduled.
- When not running, the controller displays the current time and the current day.
- During manual operations, there is a 5-second delay before the operation begins. During this time, you can change your settings. Each time you make a change, the delay resets to 5 seconds.
- MANUAL procedures only operate with the Program dial set in the AUTO or MANUAL positions.
- To reset, remove battery and power down the unit.

## FRONT PANEL LAYOUT

Looking at the front panel, you see a large LCD, 4 rubber buttons and one large rotary dial. The rubber buttons are marked SELECT and ADJUST and are the core of Signature's exclusive SELECT&ADJUST programming. The keys are identified with '+' or '-' for increasing or decreasing the segment you're working on.

SELECT&ADJUST works on the principle that you first SELECT what you want to set, and ADJUST the variables of what you selected. For example, if you want a run time of 10 minutes on zone 5, you would use the SELECT keys to select zone 5 and, once on zone 5, you would use the ADJUST keys to set the run time to 10 minutes. There are instances when only SELECT or only ADJUST are required. They will be explained in this guide where appropriate.

**NOTE: Every time the '+' or '-' key is pressed, the display will increase or decrease one unit. Hold the '+' or '-' key for three seconds to initiate a fast scroll. NOTE: Please refer to the Technical Data section for an explanation of the LCD segments.**

## **SET TIME OF DAY, DATE & CURRENT DAY OF WEEK**

Turn the large dial to the DATE/TIME position. Press SELECT to select between hours, minutes, and 12/24 hour mode. Press ADJUST to scroll to the correct time or adjust between 12/24 mode. 'A.M.' will not appear on the LCD when in A.M. mode; 'P.M.' will appear on the LCD when in P.M. mode. Press SELECT keys to select between day, month and year positions. Press ADJUST keys to scroll to the current date. The correct day of the week will automatically show on LCD screen when today's date is adjusted. The EZ Indoor™ controller is leap year compliant.

## **SELECT ZONES AND SET THEIR RUN TIMES**

A zone run time determines the duration a zone will run. Turn the large dial to the RUN TIME A or B position. Press SELECT to choose the zone you want for the selected program (A or B). With the zone number displayed on the LCD, press ADJUST to adjust the RUN TIME for that zone. RUNTIMES can be set from 1 minute to 6 hours. Continue selecting zones and adjusting their run times until you have all the zones you want in the selected program.

After the last zone and before the first zone, a RUN TIME summation is provided. This is useful for determining the total run time for a program. The LCD displays the letters "ALL" and a total RUN TIME is displayed. The time displayed is a summation of all the RUN TIMES for the selected program. (ex. A program has a run time of 5 minutes on zone 1; 12 minutes on zone 2; and 6 minutes on zone 4. The display at this position displays ALL and a run time of 23 minutes).

## **SET START TIMES**

A START TIME is the time of day a program will start running. The EZ Indoor™ allows three start times per program (only 1 start time needed if watering once a day). Turn the large dial to the START TIME A or B position. Press SELECT to select the start time you want to set (1, 2, or 3). Press ADJUST to set the time of day the program will start. Repeat as needed. To delete a start time, select the position between 11:59pm and 12:00am. The --:-- will appear indicating.

## **START TIME STACKING**

The EZ Indoor™ will stack start times if your program watering times overlap another start time. The additional start time will begin when the first cycle finishes.

## SET THE WATERING SCHEDULE

- **WATER DAYS**, or daily, lets you choose which days of the week you want to water (i.e., Monday, Wednesday, Friday only).
- **ODD/EVEN** tells the controller to water on either the odd or even days of the month (i.e., the controller will water on the 31st and the 1st when an ODD schedule is chosen).
- **INTERVAL** waters every X number of days (from 1 to 30 days) (i.e., water every 3 days, waters every 10 days, etc.). A value of 1 in an interval schedule means to water every day. When using the interval option, you have the flexibility to tell the controller what day to start the interval program on (up to 30 days out).

The LCD will display the currently scheduled program (default is all WATER DAYS.) The SELECT keys will scroll the LCD display through each of the scheduling positions WATER DAYS, ODD, EVEN, INTERVAL, and INTERVAL START DATE. A scheduling option is chosen after you press a button, either SELECT or ADJUST. The old schedule is replaced with the new one. It's easy to program a schedule with the following procedures.

### SET WATER DAYS SCHEDULING OPTION

Turn the large dial to the SCHEDULE A or B position. Use the SELECT till the raindrops appear above the days of the week. Press the ADJUST '+' button to select that day for watering or press ADJUST '-' for non-watering days. A flashing indicator appears over the day you're about to set. Raindrops appear over selected days to water. The indicator automatically moves one day to the right after an ADJUST '+' or '-' key press. Continue selecting or deselecting the days you want the controller to water until you have your 7-day calendar set.

**NOTE: Programming a WATER DAYS schedule deletes any other schedule for the selected program.**

### SET ODD/EVEN DAY SCHEDULING OPTION

Turn the large dial to the SCHEDULE A or B position. The last scheduling option chosen for the current program appears on the LCD. To set either an ODD or an EVEN schedule press the SELECT button till an arrow appears on the LCD next to the appropriate schedule (ODD or EVEN). A DATE must be set for odd/even watering. The SELECT buttons act as toggle keys and will toggle between odd or even.

**NOTE: Programming an ODD/EVEN schedule deletes any other schedule for the selected program.**

## SET INTERVAL SCHEDULING OPTION

Turn the large dial to the SCHEDULE A or B position. The last scheduling option chosen for the current program appears on the LCD. Press SELECT to scroll to the interval days position. An arrow will appear on the LCD next to INT (Interval). Use the ADJUST to choose interval days between watering (1-30). The date displayed is day one of the interval schedule (Today's date if one has been set). A DATE must be set for odd/even watering. To change day 1 date use SELECT to go to the interval start date position. As needed, change the date for day one of the interval schedule with ADJUST (can only be set up to 30 days out).

**NOTE: Programming an INTERVAL schedule deletes any other schedule for the selected program.**

## PROGRAM REVIEW

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To review the current program, turn the large dial to the setting you wish to review (i.e., turn the large dial to TIME to review the time set for the controller). When you need to view different zones or run times (1, 2, 3), use the SELECT buttons only.

## PROGRAMMING INSTRUCTIONS - OFF MODE

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### TURNING THE CONTROLLER OFF

Turn the MODE dial to the OFF position. This suspends all watering operations (including manual/test procedures) from operating. The clock continues to maintain the current time and date and your program(s) is retained until you want to run your program(s) again. To run your program, turn the MODE dial back to the AUTO position.

### ADVANCED FEATURES WATER BUDGET

Set % WATER BUDGET changes the duration of run times in a program by the percentage entered 0 - 200% (i.e., a 10 minute run time at 50% water budget will run 5 minutes). This feature is useful when changes in weather occur. If it is unusually dry, you may want to extend your run time for each zone in a program. With % Water Budget, you can change one number; and all run times in the program are adjusted. Turn the large dial to the % WATER BUDGET position. A % symbol will appear on the LCD to let you know you are working on the % Water Budget amount. Press ADJUST to choose the desired percentage amount. If % WATER BUDGET is set for 110% or greater, the EZ Indoor™ will split the run time in half to reduce runoff. Half of the calculated run time will operate for each zone in that program, followed by the second half of the run time for each zone.

**NOTE: % WATER BUDGET is changeable by program. If you have programming in A, and B, you must enter two water budget values if you want every program to be changed.**

## ADVANCED FEATURES - AUTO MODE

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The EZ Indoor™ incorporates a manual/test procedure for checking the function of the controller or allowing you to bypass the current program to water immediately. The following section will show you how to set up the controller to run a zone manually.

**NOTE: All test procedures are run with the dial in the MANUAL position. If necessary, you can return the dial to the AUTO position while a manual test is in progress. This allows you the ability to walk away from the controller after setting up a manual/test procedure and not have to come back to reset the controller to AUTO.**

**NOTE: Manual or automatic watering will not work if a rain sensor is installed and it has suspended watering. If watering is required you will need to bypass the rain sensor.**

### RUN A ZONE MANUALLY

Turn the large dial to the MANUAL position. The default of zone 01 and 00:10 minutes will be flashing (recall that this means you can change them). Press SELECT to select the zone number that you want to run. Press ADJUST to set the run time for the selected zone. The controller will delay 5 seconds before starting the zone. After the zone starts you can return the dial to the AUTO position and the controller will finish the manual test.

The EZ Indoor™ incorporates Signature's ManualAdvance feature in the MANUAL procedure. ManualAdvance allows you to cease the currently running zone and immediately advance to any new zone you select. With the MANUAL or CYCLE procedure running a zone, Press SELECT to advance to a new zone. The last entered run time will be displayed. Press ADJUST to enter a new run time for the new zone (the controller will delay 5 seconds before starting the new zone).

**NOTE: Once the zone has started running, the run time cannot be adjusted without deselected and reselecting the zone.**

## TECHNICAL DATA

### 1. Transformer

24 VAC internal transformer; 20 VA, .67A for zones and logic. The transformer can run a pump or master valve and one zone valve, maximum.

### 2. Sensor Operation

Sensors must have normally closed connections (leads) and must be wired between the timer common terminal and the field com wire.

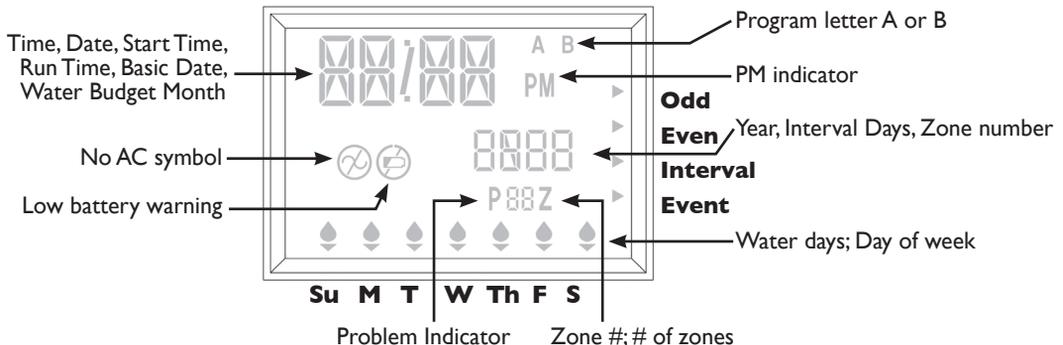
### 3. Zone Lines

The EZ Indoor™ will operate a maximum of two (2) solenoids concurrently, providing one is the pump/master valve.

### 4. Temperature Range

Operating: -20° to +55° C (23° to 131° Fahrenheit). Storage: -30° to +85° C (-22° to 185° Fahrenheit)

### 5. Display



## 6. Battery

CR2032 coin cell.

## 7. Case Dimensions

(approx.): 6" H x 4 1/2" W x 2" D

## 8. Reset Procedures

To reset the controller to factory defaults, remove battery & remove power. In the event of a lock-up, follow the same procedure.

## 9. Default Settings (12 hour mode)

- 12:00 A.M. • Tuesday • Date is 01/01 2008
- No Run Times (zone 01, —:—)
- No Start Times (start number 01, —:—)
- Every day watering schedule
- 5 second delay between zones

## 10. Fuse

An electronic poly-switch is incorporated on the interconnect PCB of the controller. This type of circuit breaker does not require resetting or replacement by the user.

## TROUBLESHOOTING/SERVICE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No output to zone, pump, master valve	<ul style="list-style-type: none"> <li>• AC disconnected</li> </ul>	<ul style="list-style-type: none"> <li>• Check AC source</li> </ul>
Controller not responding to any dial/key press	<ul style="list-style-type: none"> <li>• Unit needs reset</li> </ul>	<ul style="list-style-type: none"> <li>• Remove battery and power down</li> </ul>
No output to a single zone	<ul style="list-style-type: none"> <li>• Wiring issues or bad solenoid</li> </ul>	<ul style="list-style-type: none"> <li>• Check wiring &amp;/or solenoid</li> </ul>
No output to any zone wire	<ul style="list-style-type: none"> <li>• Broken or disconnected common</li> <li>• RS wired into common wire is open or disconnected</li> </ul>	<ul style="list-style-type: none"> <li>• Check common wire</li> </ul>
If overwatering	<ul style="list-style-type: none"> <li>• Too many start times</li> </ul>	<ul style="list-style-type: none"> <li>• Check start times-only I needed</li> </ul>

## STATEMENT OF CONDITIONS

In the interest of improving internal design, operational function, and/or reliability, Signature Control Systems reserves the right to make changes to the product described in this document without notice.

Signature Control Systems does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

### **Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Canadian Department of Communications Radio Interference Regulations**

This digital apparatus (SIGNATURE CONTROL SYSTEMS Model EZ Indoor™) does not exceed the Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

# DECLARATION OF CONFORMITY

## Application of Council Directive(S): Directive 2004/108/EC (EMC) Directive 2006/95/EC (LVD)

<b>Standards To Which Conformity Is Declared:</b>	EN 55014-1:2006/A2:2011 AND EN 55014-2-1997/A2:2008 EN 61558-1:2005/A1:2009 AND EN 61558-2-6:2009 EN 60730-2-7:2010
<b>Manufacturer's Name:</b>	Signature Control Systems, Inc.
<b>Manufacturer's Address:</b>	16485 Laguna Canyon Rd., Suite 130, Irvine, California 92618 Tel: 949.580.3640 • Fax: 949.580.3645
<b>Equipment Description:</b>	Electronic Irrigation Controller
<b>Equipment Class:</b>	Requirements for household appliances, electric tools and similar apparatus
<b>Model Numbers:</b>	EZ INDOOR™ - 8124, 8126, 8204, 8206, 8209, 8274, 8276, 8279 (IT,PT,FR,ES)

<b>Manufacturer:</b> Signature Control Systems, Inc.	<b>Legal Representative:</b> Signature Control Systems, Inc.
<b>Name:</b> Aaron M. Coakley	<b>Name:</b> Brian J. Smith
<b>Signature:</b> 	<b>Signature:</b> 
<b>Position:</b> Electronics Project Engineer	<b>Position:</b> President & CEO
<b>Date:</b> 27 <sup>th</sup> February 2013	<b>Date:</b> 5 <sup>th</sup> March 2013

## SIGNATURE CONTROL SYSTEMS, INC LIMITED WARRANTY AND DISCLAIMER: TURF PRODUCTS

- 1) Signature Control Systems, Inc. ["SCS"] warrants to the owner (the "Buyer") that all new products, as featured in the current Signature Turf Catalog at date of purchase will be free from original defects in materials and workmanship for the time periods described below, provided they are used for approved purposes under manufacturer's recommended specifications.
- 2) This warranty is given expressly and in place of all other expressed or implied warranties of merchantability and fitness for a particular purpose. This is the only warranty made by Signature Control Systems, Inc for Turf products. This warranty gives you specific legal rights and you may have other rights which vary from state to state.
- 3) During the warranty period, SCS will repair or replace, at SCS's sole discretion, any part to be found defective with prior written authorization. Buyers remedy is limited solely to the replacement or repair of the defective parts.
- 4) This warranty does not apply (i) to Acts of God including without limitation, lightning and flooding; or (ii) to products not manufactured by SCS when used in conjunction with SCS products; or (iii) where equipment is used, or installation is performed in any manner contrary to SCS's specifications and instructions, nor where equipment is altered or modified.
- 5) **Signature Control Systems, Inc. reserves the right to redesign, alter or modify its products at anytime and does not, and will not, assume any liability with respect to obsolete inventory arising there from.**
- 6) Neither SCS or its affiliates are liable for any indirect, incidental or consequential damages in connection with the use of equipment, including but not limited to: vegetation loss, the cost of substitute equipment or services required during periods of malfunction or resulting non-use, property damage or personal injury resulting from installer's actions, whether negligent or otherwise.
- 7) No agent or representative of SCS, nor of any distributor, retailer, lessor or installer of the system, has any express or implied authority to make any representation, promise, guarantee or warranty not stated here. SCS disclaims any warranty of merchantability or fitness for a particular purpose, or any other warranties that extend beyond those described here.
- 8) Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. All implied warranties, including those of merchantability and fitness for use, are limited to the duration of this express warranty.
- 9) Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
- 10) **STANDARD PRODUCTS LIMITED 1-YEAR WARRANTY:** All SCS products are covered by this warranty for a period of one year from the date of supply except as noted below:
  - a) **Signature Turf Gear Drive Rotors, Spray-Heads & Valves:** Five (5) years; from original sale date.
  - b) **Signature Turf & Satellite Controllers:** Two (2) years; from original sale date.
  - c) **Repairs & Refurbished Components:** Balance of product warranty or three (3) months, from repair date, whichever occurs first, on materials and labor only.
  - d) **Brass Quick Coupler Valve Bodies:** Five (5) years; from original sale date.
  - e) **Solenoid Coils:** One (1) year; from original sale date.
- 11) **TECHNICAL ADVICE:** SCS warranties as hereinabove set forth shall not be enlarged, diminished or affected by, and no obligation or liability shall arise or grow out of, SCS rendering of technical advice or service in connection with Buyer's order or the products furnished.
- 12) **QUESTIONS:** If you have any questions concerning the warranty or its application, please email your question to [info@scsmail.com](mailto:info@scsmail.com) or write to:  
Signature Control Systems, Inc  
Turf Division  
8800 N. Allen Rd. • Peoria, Illinois 61615  
U.S.A.  
Attention: Customer Service.
- 13) **CLAIMED DEFECTIVE MERCHANDISE POLICY.** Products returned to the retailer or distributor and claimed defective must be inspected by an authorized SCS representative to determine warranty compliance. If approval is granted, products will be repaired or replaced, or a credit memorandum covering the net purchase price will be issued.
- 14) **In the event of a defect:** If a defect arises in a Signature product or part within the warranty period, you should contact your Signature retailer, distributor, or Signature Control Systems, Inc. at [www.signaturecontrolsystems.com](http://www.signaturecontrolsystems.com) or one of the following locations:
 

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- 15) **SERVICE TIME-LINE:** Signature may, at its option, require that product or part be returned to a Signature service point or your retailer or distributor. Signature will determine whether the claimed defect is covered by the warranty. If covered, the product will be repaired or replaced. Please allow 4 to 6 weeks for completion of repairs or replacement and return of the product or part. If a product or part is replaced, the replacement is warranted only for the remainder of the original product or part warranty period.

**If you have questions, problems or comments  
on your new EZ Indoor™ 8100 Series,  
please call our Technical Services Department toll-free  
at 1-866-4SIGNATURE, or by visiting us on our website at  
[www.SignatureControlSystems.com](http://www.SignatureControlSystems.com)**

# Signature<sup>®</sup>

CONTROL SYSTEMS, INC.

[www.SignatureControlSystems.com](http://www.SignatureControlSystems.com)



FOR MORE INFORMATION

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