

Signature[®]

CONTROL SYSTEMS, INC.



Signature Share

EZPRO[™] 8600 Series

SCS-Share[™] Quick Start Guide

www.scs-share.com

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FEATURES

SCS-Share™ is an internet-based central control system used with EZ Pro™ 8600 Series controllers. It communicates with EZ Pro™ irrigation field controllers using wireless connectivity, and allows management of controller from anywhere in the world via the Internet.

Along with all the advantages of Internet-based access to remote irrigation field controllers, **SCS-Share™** provides a weather-based irrigation scheduling option. Location-specific weather data (ET) is delivered daily to irrigation controllers which allows the realization of quantifiable water savings and reduced operational costs.

The exciting features of **SCS-Share™** can be added to all EZ Pro™ 8600 Series controllers without any changes to the controller other than the addition of a single communication modem board (Also requires a cellular data plan from your local carrier).

INSTALLATION INSTRUCTIONS



Figure 1

1. Master Valve/Pump Start Terminal
2. Sensor Input Terminal
3. Remote Link/Stand Alone Switch
4. Status Indicator Lights
5. **SCS-Share**™ Communications Module
6. IMEI # Required for Account Setup

INSTALLATION INSTRUCTIONS

TERMINAL STRIP

All zone, pump and sensor wire connections are made inside the EZ Pro™. The terminal strips on the **SCS-Share™** Communication Module will accept 14 AWG (1.6mm) wire or smaller.

CONNECTING MASTER VALVE OR PUMP-START RELAY

The **SCS-Share™** Communication Module is equipped with a Master Valve / Pump Start circuit to operate either a pump-start relay or a master valve (see **Figure 1**). This connection must be used when in the remote mode. To enable the Master valve / Pump Start to be used in either the Remote or Local mode install a jumper wire as indicated in **Figure 2**. A properly connected Master Valve or Pump Start relay will have its common wire connected to one of the common terminals on the EZ Pro™ terminal strip and the hot wire connected to the terminal labeled PMP/MV along with the jumper wire connected to the **SCS-Share™** Communication Module MV terminal. Refer to the pump-start relay manufacturer's instructions for specific installation details.

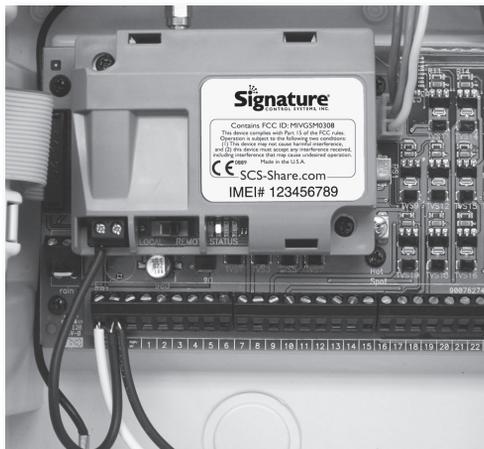


Figure 2

CONNECTING RAIN/MOISTURE SENSOR

The **SCS-Share™** Communication Module is equipped to operate a sensor with normally-closed leads (see **Figure 1**). To install a sensor, leave the factory-installed jumper wire on the EZ Pro™ terminal strip and insert one sensor wire into the S1 terminal and the other sensor wire into one of the Common terminals on the EZ Pro™ terminal strip as indicated in **Figure 3**. Refer to the sensor manufacturer's instructions for specific installation details. If a sensor has suspended watering, the sensor indicator segment will appear on the LCD. The symbol will go off when the sensor has dried out and will resume operation based on the program.

SLIDE SWITCH

The **SCS-Share™** Communication Module is equipped with a 2 position slide switch which will enable you to set the EZ Pro™ to either the Remote or Local mode, see **Figure 1**. When in the Remote mode the EZ Pro™ will only execute commands via SCS-Share.com. When in the local mode the EZ Pro™ will operate from its native interface only. If the slide switch is in the Local position the Unit cannot be taken out of the Local mode remotely.

4 LEDs

Four LED outputs are used to indicate status of the device. Current States are defined as follows:

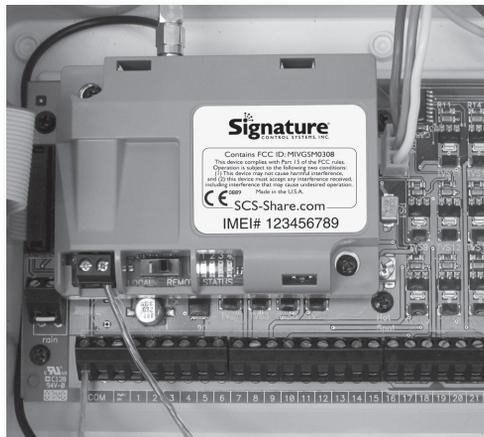


Figure 3

INSTALLATION INSTRUCTIONS

| MAIN APPLICATION | | | | |
|--|--------|--------|--------|--------|
| Waiting for Modem powerup/Supercap charging. This will appear as a bar graph (left to right) as the cap voltage increases to the setpoint. | ON/OFF | ON/OFF | ON/OFF | ON/OFF |
| 1 Sec tick | FLASH | N/A | N/A | N/A |
| Command Mode. No forwarding of data between the modem and peripheral port in this mode. | FLASH | FLASH | OFF | OFF |
| Passthru Mode. Data is passed between Modem and peripheral port, microcontroller does not manage modem state. | FLASH | FLASH | ON | OFF |
| Waiting for Modem DSR | FLASH | OFF | ON | ON |
| Waiting for Modem GSM + GPRS Network Registration | FLASH | OFF | ON | OFF |
| Setting Network Time | ON | ON | OFF | OFF |
| Waiting for TCP Connection | FLASH | OFF | OFF | OFF |
| Modem registered and in Data Mode | FLASH | ON | OFF | OFF |
| System ON | FLASH | ON | OFF | OFF |
| System OFF | FLASH | ON | OFF | ON |
| Remote Bypass | FLASH | ON | ON | OFF |
| Station Active | FLASH | ON | ON | ON |

PLEASE READ THIS FIRST

SCS-Share.com Account Creation And Setup

- To start, please go to www.scs-share.com using a web browser on a desktop, laptop, or tablet.
- Please follow the instructions on “SCS-Share.com Initial Setup”
IMPORTANT: To create your new account using admin functions such as adding Controller(s), Zip/City, and User Accounts. Please review the information from page 17 - page 21

iPhone And iPad Users

- Please follow “SCS-Share.com Account Creation And Setup”.
- After you create your account on the web, you can visit the App store from your iPhone or iPad to download “SCS-Share” - a free App which is designed for controller functions such as Manual Operation, Programming, and Manual Programming.
- To download “SCS-Share”, please follow instructions on “IOS Installation Guide”
Please review the information from page 22 - page 24

Android Smartphone And Tablet Users

- Please follow “SCS-Share.com Account Creation And Setup”.
- After you create your account on the web, you can visit the Google Play store from your Android smartphone or tablet to download “SCS-Share” - a free App which is designed for controller functions such as Manual Operation, Programming, and Manual Programming.
- To download “SCS-Share”, please follow instructions on “Android Installation Guide”
Please review the information from page 25 - page 27

SCS-SHARE.COM INITIAL SETUP (via scs-share.com)

• Creating A New Account

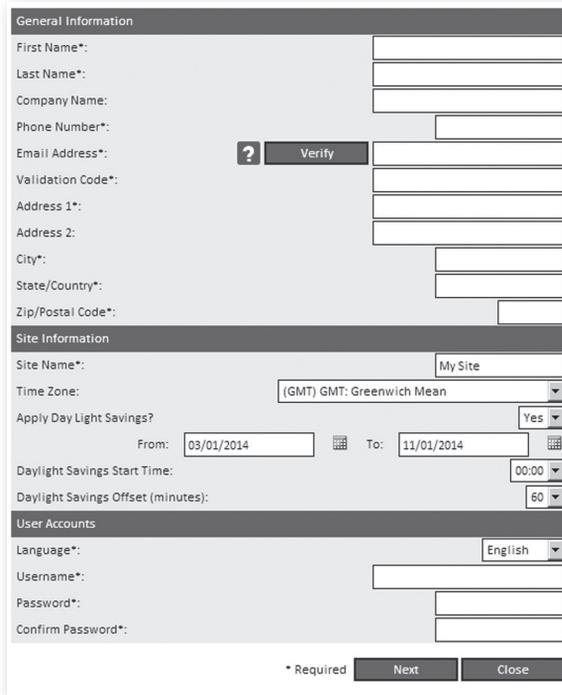
1. Open <http://scs-share.com/>
2. Click on “Create New Account” Button
3. Fill out the sign up form

Note: Make sure all leading and trailing blank spaces are removed from the Validation Code

4. The account is active and ready to use
5. All new accounts have the following default settings.

- a. One zip code or city limit
- b. One site limit
- c. Intelligent Water and Weather Service is disabled and sold separately.
- d. Contact Signature or the Dealer to buy Intelligent Water & Weather Service

Note: To request additional zip codes and/or sites and to enable Smart Water and/or Weather Service the user can contact SCS.



The screenshot shows a web form for creating a new account. It is divided into three main sections: General Information, Site Information, and User Accounts. The General Information section includes fields for First Name, Last Name, Company Name, Phone Number, Email Address (with a 'Verify' button), Validation Code, Address 1, Address 2, City, State/Country, and Zip/Postal Code. The Site Information section includes Site Name (pre-filled with 'My Site'), Time Zone (set to '(GMT) GMT: Greenwich Mean'), Apply Day Light Savings? (set to 'Yes'), Daylight Savings Start Time (set to '00:00'), and Daylight Savings Offset (set to '60'). The User Accounts section includes Language (set to 'English'), Username, Password, and Confirm Password. At the bottom right, there are buttons for 'Next' and 'Close', and a note that asterisks indicate required fields.

- **First Login and Initial Setup (via scs-share.com)**

- **Adding A Zip Code (USA) or City (INTL)**

- I. Go to “Account Function”→“Manage Locations”, then click on “Add City” or “Add Zip” button and save your settings

Note: Please add a city for international and a zip code for USA

The screenshot shows a web interface for managing location settings. It is divided into two main sections: 'Current Location Settings' and 'Manage Locations'.

Current Location Settings:

- Location Limit:** A text label followed by a text input field containing the number '5'.
- Locations:** A text label followed by a text input field containing the number '2'.

Manage Locations:

- Location:** A text label followed by a dropdown menu showing '85250' and a downward arrow.

At the bottom of the 'Manage Locations' section, there are four buttons: 'Add', 'Edit', 'Delete', and 'Close'.

- **Adding A Controller**

1. Plug in your controller(s) and make sure they have connection/signal
2. Login at scs-share.com using the admin username/password that was set in “Creating a new account” step
3. Have your Device ID (IMEI/MAC Address) ready and go to “Site Function”→ “Add Controller” button
(See *Figure 1* on page 7 for the location of your Device ID)
4. Enter the Device ID, a name, and select a location and other details. The website will automatically detect your controller type as long as it is connected.
5. Repeat these steps for all your controllers

| Add Controller | |
|---|---|
| Device ID: | <input type="text" value="001BC5089074"/> |
| Status: | <input checked="" type="checkbox"/> <input type="button" value="Online"/> |
| Type: | <input type="text" value="EZ Connect"/> |
| Zones: | <input type="text" value="12"/> |
| Controller Name: <input type="text" value="My Controller"/> | |
| Location: | <input type="text" value="Paris"/> |
| Time Format: | <input type="text" value="24hr"/> |
| Time Zone: | <input type="text" value="(GMT + 1) CET: Central European"/> |
| Apply Day Light Savings?: | <input type="text" value="Yes"/> |
| Daylight Savings Start Time: | <input type="text" value="02:00"/> |
| Daylight Savings Offset (minutes): | <input type="text" value="60"/> |
| From: | <input type="text" value="03/01/2014"/> |
| To: | <input type="text" value="11/01/2014"/> |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | |

● Adding User Accounts

1. Each account can have multiple users (there is no limit on the number of user accounts)
2. Each user account can either be “Admin” or “User”
3. “Admin” accounts have access to all functions and features by default and can add, edit, and delete other user accounts
4. “User” accounts have limited access to functions and features (selected by the Admin) and can’t add, edit, and delete other user accounts
5. To add a user account login using an “Admin” account and go to “Account Function”→ “User Management” and then the “Add New User” button
6. Here you can select the user type and assign a username and password. If the user type is “User” you need to select which functions they can have access to

The screenshot shows a web interface titled "Manage Users" with the following fields and options:

- First Name: Jon
- Last Name: Snow
- Email Address: JS@mydomain.com
- Username: JSAdmin (checked)
- Password: [masked]
- Confirm Password: [masked]
- User Type: Admin (dropdown menu)
- Function Permissions: Controller Setup, Intelligent Irrigation, Manual Operation, Programming (dropdown menu)
- Site Permissions: My Site (dropdown menu)
- Send Critical Event Emails: No (checkbox)

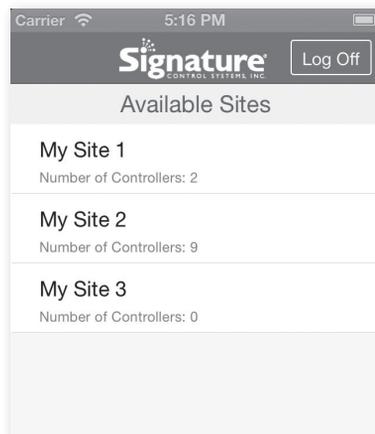
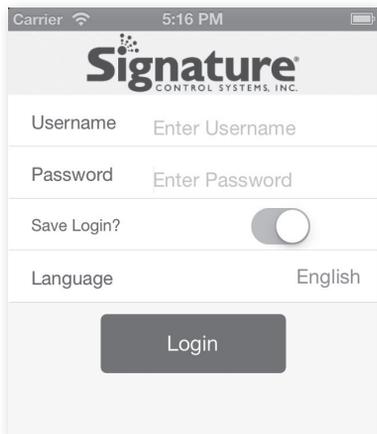
Buttons at the bottom: Apply, Back, Close

iOS INSTALLATION GUIDE

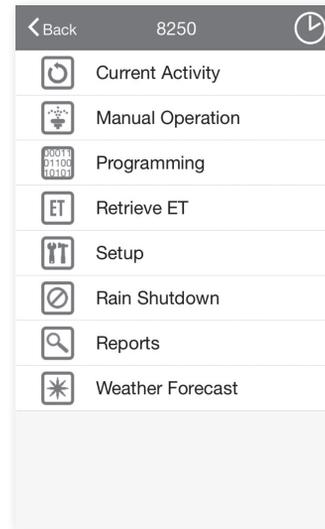
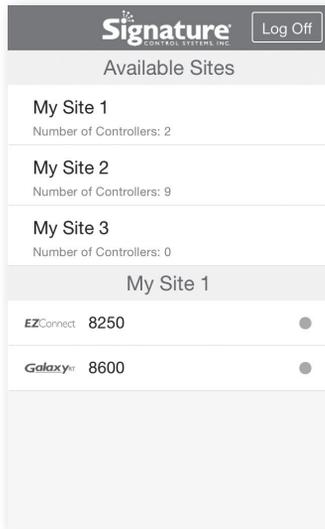
- Open the App Store App from your device.
- Press the search tab
- Type in SCS Share in the search bar and press enter
- Press the install button on the SCS Share app and the app will automatically download to your device.



- Make sure that you have done the initial account setup on SCS-Share.com
- Once you have your account set up you can log into that same account on your iOS device from the login screen
- After you log in you will see a user license agreement popup for this app



- After reading this agreement and then select agree, you will see all of your sites that you set up
- Press each site to see the controllers on that site
- Press the controller with green online signal and you will be taken to the controller screen. From there you will be able to use Programming, Manual Operation and many other functions available for your controller.

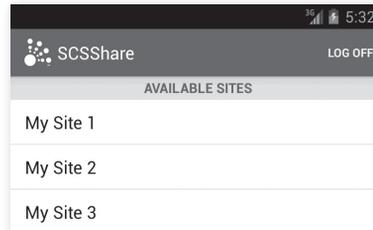
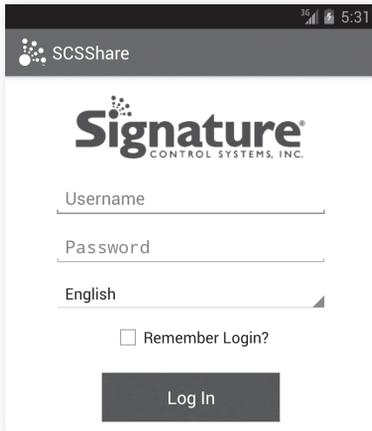


ANDROID INSTALLATION GUIDE

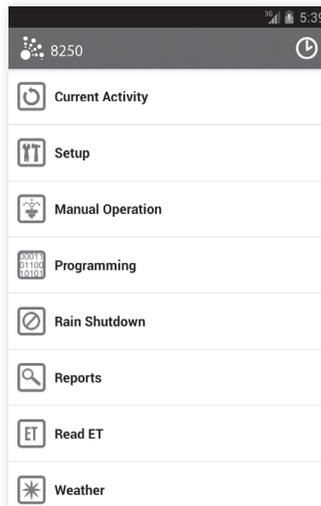
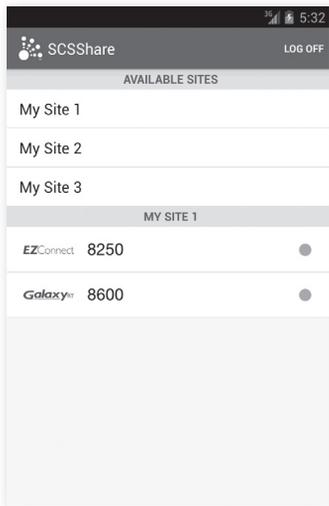
- Open the Google Play Store App from your device.
- Press the search tab
- Type in SCS Share in the search bar and press enter
- Press the install button on the SCS Share app and the app will automatically download to your device.



- Make sure that you have done the initial account setup on SCS-Share.com
- Once you have your account set up you can log into that same account on your Android device from the login screen
- After you log in you will see a user license agreement popup for this app



- After reading this agreement and then select agree, you will see all of your sites that you set up
- Press each site to see the controllers on that site
- Press the controller with green online signal and you will be taken to the controller screen. From there you will be able to use Programming, Manual Operation and many other functions available for your controller.



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 Connect™) 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 Directives: 1999/5/EC

| | |
|---|--|
| Manufacturer's Name: | Signature Control Systems, Inc. |
| Manufacturer's Address: | 8800 N Allen Rd. • Peoria, • IL 61615 • USA 949-580-3640 |
| European Representative Name: | Michel Arbadji |
| European Representative Address: | Signature Control Systems Inc 5 Rue Zone De La Vallee Yart, 78640 St Germain De La Grange • France |
| Type of Equipment: | Electronic Irrigation Controller |
| Model No.(s): | EZ Pro Live™ |
| Manufacturing Start Date: | March 2011 |
| Standards met: | EN 301 489-1:V1.8.1:2008 referencing EN 301 489-7:V1.3.1:2005 RSE 3GPP TS 51.010-1 Test Cases 12.2.x |

| | |
|-------------------------------------|---------------------------------|
| Manufacturer: | Signature Control Systems, Inc. |
| Manufacturer Representative: | Aaron M. Coakley |
| Position: | Electronics Project Engineer |
| Date: | 2-March-2011 |

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. Buyer's 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 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 or one of the following locations:

| | | | | |
|---|--|--|---|---|
| WORLD HEADQUARTERS 16485 Laguna Canyon Rd., Suite 130, Irvine • California • 92618 Tel: 949.580.3640 Fax: 949.580.3645 | MANUFACTURING FACILITY 8800 N. Allen Rd., Peoria • Illinois • 61615 Tel: 949.580.3640 Fax: 949.580.3645 | EUROPE & MIDDLE EAST 5 rue de la Vallée Yart 78640 Saint Germain de la Grange France Tel: +33.13.489.9056 Fax: +33.13.489.6025 | REGIONAL OFFICES ASIA Shenzhen • Guangdong Province • 518131 Tel: (86) 136.00419465 • Fax: (86) 755.83275012 AFRICA Roodepoort • South Africa Office & Mobile: +27 82 553 9093 • Fax: 086 670 6318 AUSTRALIA Glen Osmond 5064 • South Australia Tel: +61 (0) 417 862 269 • Fax: +61 (0) 8 8338 2021 | MEXICO, CENTRAL AMERICA Guanajuato • Mexico Tel/Fax: +52 (461) 614.2322 SOUTH AMERICA Santiago • Chile Tel/Fax: +56 229.356220 |
|---|--|--|---|---|
- 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.

FCC RULES

Listings and approvals

- FCC Part 15B and CISPR 22
- Contains Module FCC ID: MIVGSM0308
- Industry Canada ID: 4160A-GSM0308
- PTCRB Certified

FCC Information

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

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

NOTES:

Signature[®]

CONTROL SYSTEMS, INC.

www.SignatureControlSystems.com



FOR MORE INFORMATION

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