Centeron® Controller

Quick Installation Guide

Setup

After the Data Collection System has been successfully setup (including adding the Controller and Monitor serial numbers into the database), the Controller can be installed by following these instructions:

Step 1.

Ensure that no Monitors have been activated prior to Controller installation.

Step 2.

Remove the Controller from the box and set it down on a flat surface (kick stand and/or wall mount feature provided on the back).

Step 3.

Controllers are setup for standard dialing mode (i.e., 1 + pause + area code + seven digit number). The Controller board also can be setup to use a dial prefix such as "9" to acquire an outside line. For installation in a location that requires you to use a dial prefix to acquire an outside line, see Step 9 or the Controller will have to be reprogrammed using the five pin connector located next to the RJ11 Phone Jack. Only qualified personnel should reprogram the Controller. Refer to Robertshaw document ES02055A01.

Step 4.

Determine whether your telephone system supports TouchTone or Pulse service. The Controller is shipped for TouchTone service. If the phone service is Pulse, then the Controller will have to be reprogrammed via the Robertshaw Serial Interface Cable. Follow the same steps as in Step 3 for Cable connection and programming.

Step 5.

Warning: Only connect phone line into an Analog phone system. Connecting to a Digital phone system may damage the Controller board.

Locate the two (2) phone jacks on the side of the Controller (next to the programming connector). Plug one end of the phone cord into either of the two (2) phone jacks (the other jack may be used to connect a standard analog phone if desired). Plug the other end of the phone cord into the phone jack on the wall.

Step 6.

Mounting

The Controller can be mounted either to a flat surface or on a wall.

Warning: For maximum reception, avoid mounting inside metal enclosures and/or in close proximity to large electrical equipment. See Instruction Manual for more RF Guidelines.

- To mount on a flat surface, simply place the bottom of the unit on a flat surface, or use the provided snap out kickstand on the back of the housing. Orient the connector end out of the way of normal operations.

- To wall mount, chose a location for easy visibility and out of the way of normal operations. Place two (2) screws into the selected wall. Insert the screws heads into the bracket holes located on the back of the Controller housing.

Step 7.
Activation

Following Controller installation, the unit can be activated.

- Locate the 12-volt power supply. Plug one end into an AC wall outlet.

- Locate the 12-volt connection on the side of the Controller.

- Plug the 12-volt power supply into the Controller. You should see a sequence of rapidly flashing green LED lights followed by a start-up sequence.

After 6–8 seconds, the Controller should return to Ready mode (Ready mode is indicated by the Power and Connection OK LED remaining green continuously). If the dial prefix or pulse/tone selection was reprogrammed as described in Step 3 the Controller must be reset. To reset the Controller, depress the white button on the side of the Controller until you see a sequence of rapidly flashing LED lights. The Controller should initiate a telephone call and then return to Ready mode (indicated by the Power and Connection OK LED remaining green continuously). The Controller is now ready to receive Monitor transmissions. Proceed to Monitor Installation.

If Controller does not return to Ready mode, see Instruction Manual for further details.

Step 8.

Use supplied re-usable zip tie to secure the phone line and power cord.

Step 9.
Dial Prefix Programming

The dial prefix can be changed by pushing in and holding the reset button while applying power to the controller. During the first three seconds, the controller will go through its standard red, yellow, and green LED initialization sequence. After the initialization sequence, all three LED's will turn off, then all LED's will turn green, then yellow. When all LED's turn yellow, release the reset button and the controller will automatically search for the proper dial prefix. After the dial prefix has been selected, the controller will automatically call the Data center then return to ready mode. Once the controller has reached ready mode, perform a long reset on the controller by pushing in and holding the reset button for 6 seconds. Please note this procedure will only write None, 9, and 8, dial prefixes. If dial prefixes 1 thru 7 are desired, refer to Robertshaw document ES02055A01.Table A1 details the function and LED combination.

Table A1: LED combinations for dial prefix selection

Test LED	**Connection LED**	**Power LED**	**Selected function when reset button is released**
Off	Off	Off	Exits test (without modification)
Green	Green	Green	Starts modem communication test
Yellow	Yellow	Yellow	Tries to communicate with the data center using prefixes sequentially: • None • 9, • 8, The first prefix, which gives an access to data center, will be stored in the EEPROM.

Robertshaw

Industrial Products Division
U.S.A – Robertshaw Industrial Products Division, 1602 Mustang Drive, Maryville, Tennessee 37801 • 800-237-7429
www.robertshawindustrial.com • www.centeron.net

Document #040005A0001
Revision #B
Dated 8/21/02

invensys