VOICE ONLY CELLULAR SYSTEM

This cellular device cannot
be used for 911 calls.

Destructive Attack:	Level I
Line Security:	Level I
Endurance:	Level IV
Standby Power:	Level I

The **VOICE ONLY Cellular System** operates on DoorKing's cellular network that is hosted on the AT&T 4G LTE network where available. This system provides voice communication ONLY (phone line) to specific DoorKing 1800 series telephone entry systems. There is **NO** programming (data) service with this system. If VOICE and DATA are required, then the VOICE and DATA cellular system should be used (P/N 1800-080 sold separately).

The VOICE ONLY Cellular System is designed to be used with specific DoorKing 1800 series telephone entry systems:

- 1802, 1803, 1808, and 1810 Standard entry systems using circuit board 1862-010.
- **1812 Classic** entry system using circuit board 1871-010.
- 1812 Plus entry system using circuit board 1971-010.

The Voice ONLY cellular system MUST be wired to the entry system's phone line (voice).

The Voice Only cellular system will work with TWO 1800 entry systems connected to it. These are designated as System A and System B.

Prior to Installation:

An existing cellular phone will be needed to test the signal strength of DoorKing's cellular network in the desired installation location.

Analog modems (Dial-Up) **DO NOT** work on a cellular network.

BEFORE the cellular system can be installed, the installation location **MUST BE TESTED** for good cellular signal strength for reliable communication. **TEST** this location using an existing active cellular phone with **ANY** of these cellular phone services that all use the same network:

- AT&T
- Consumer Cellular Note: Other cellular phone services
- Cricket Wireless
 - ket Wireless wo
- Go Phone
- Straight Talk

use different networks and will not work for testing signal strength of the cellular system.

cellular nhone

> Signal Strength

Activate the phone near the position where you want the plastic enclosure to be installed. 3-4 bars of signal strength should be indicated on the phone for a reliable signal. If 3-4 bars are not achievable in that specific location, then try moving the phone around and see if at least 3-4 bars can be achieved and maintained in a nearby location. **DO NOT install the enclosure in a WEAK or NO signal area.** Generally, the higher the enclosure is mounted, the better the reception. This also helps protect against vandalism. The enclosure should be located to minimize the wire runs to "**SYSTEM A**" 1800 telephone entry system. Keep the wire run between the two devices as short as possible, maximum 100 feet. This allows less chance for lightning surges or other electrical interference to disrupt the cellular signal. Keep the enclosure away from any metal. This can also disrupt the signal. After the 3-4 bar signal strength has been confirmed the installation can begin.

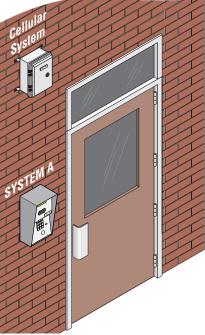
Installation Steps:

- 1. Install and wire cellular system to 1800(s) (pages 2&3).
- 2. Power up cellular system (page 3).

3. Register cellular system (and 1800(s)) online, this can be done before or after cellular system has been installed (page 3).

- 4. Test cellular system (page 3).
- 5. Troubleshoot cellular system if necessary (page 4).

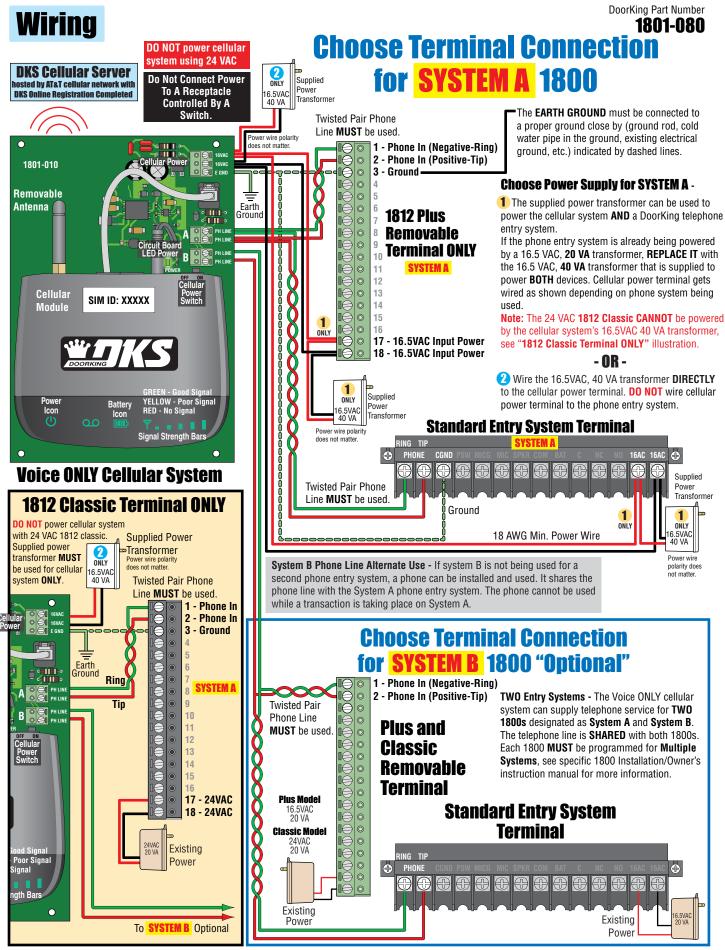
Note: Installation steps assume that a good cellular signal has been tested at installation location and the 1800 system(s) has already been setup and functioning including the **master code** and **multiple system programming** if 2 1800s are being used.



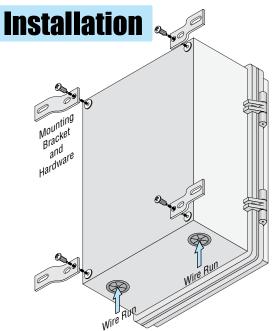


Copyright 2018 DoorKing, Inc. All rights reserved.

1



2



The plastic enclosure comes with mounting brackets and hardware to mount on enclosure. Mount enclosure on surface using appropriate hardware (not included). **IT IS NOT RECOMMENDED DRILLING HOLES IN THE PLASTIC ENCLOSURE!** If holes must be drilled, remove the circuit board before drilling and be sure that mounting bolts/screws do not touch the back of the circuit board. Holes must be sealed to prevent water intrusion.

Cellular System Information

Powering Up Cellular System - The Voice ONLY cellular system will **NOT** function until **online registration** has been successfully completed on DoorKing's Cellular website. Within 1 minute of powering up the cellular module, the module lights should turn on. If they don't, check that the cellular power switch is turned ON. Signal strength Bars should be lit **GREEN** indicating good cell reception. **YELLOW** bars indicates poor reception but may still work. **RED** bars indicates no reception. The cellular module's lithium battery needs time to charge. Allow at least ½ hour of charging time before using system. Program the assigned phone number (from DKS cellular registration) into the 1800 entry system to make a test call.

Adjusting 1800 Entry System - When making a test call from the 1800 telephone entry system, adjust the microphone, speaker and feedback on the entry system, See specific 1800 Installation/Owner's instruction manual for more information.

Using Two 1800 Entry Systems - Each 1800 must be programmed for MULTIPLE SYSTEMS. see specific 1800 Installation/Owner's instruction manual for information to program each 1800.

TWO 1800 Entry Systems Master Codes - Each 1800 entry system's Master Code must be **DIFFERENT**. The DKS cellular server identifies each 1800 by its unique master code. This allows separate programming for each 1800.

Online Registration MUST be Completed

DKS Cellular requires a **SEPARATE** registration from the DKS IM Server. If a customer already has an IM Server account and wants to add a DKS Cellular system, this will require a **SEPARATE** User ID and Registration.

- DKS IM Server includes: IM Server Modem and IM Server Client.
- DKS Cellular includes: Cellular Phone and Data Transfer.
- Before registering a cellular system on DoorKing's Cellular Server you will need:
 - SIM ID number located on the cellular module (number is unique for each cellular module).
 - Master Code of System A.
 - Master Code of System B if connected, MUST be a different master code than System A.

OPTION 1. Go to DKS cellular website: https://dksdb.dksoftware.com/NewUserRegChoice.aspx to register, follow instructions on website.

OPTION 2. Online registration is directly offered when installing the DoorKing Remote Management Software version 6.3.g or later on YOUR internet connected PC. Create an account and select the **Voice ONLY** account from the options.

- Voice Only (Only service available for Voice ONLY cellular system)
- Voice and Data (not applicable)
- Data Only (not applicable)

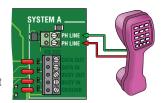
Enter the SIM ID number to identify the Cellular System to the account created. After the SIM ID number is entered along with the local billing address, a local cellular phone number will be assigned to that cellular device.

Register the 1800 systems (Master Codes) to the account. The **FIRST 1800 master code** entered will be identified as **System A**. If a second 1800 master code is entered, it will be identified as **System B**.



Final Testing after the Cellular System has been Registered - All systems should be tested and final adjustments done. Connect a telephone butt set to the cellular system circuit board Phone Line and make sure the line is active and that phone calls may be made and received.

If the phone line is not active, something went wrong during the registration which must be corrected. If still having problems, call DoorKing tech support. Attach a label to the inside of the cellular enclosure listing the local phone number that was assigned during registration.



Voice Testing - Program a phone number into the memory of the 1800 using the 1800 keypad. Then call that programmed number on the 1800. Have the call recipient press "9" on their phone to open the door. Verify the 9 tone is detected (door will open). The feedback on the 1800 **MUST** be adjusted for the cellular network. This adjustment is **VERY** important for DTMF detection. See specific 1800 Installation/Owner's instruction manual for programming and adjustment information. Note: The 1812 Plus **automatically** adjusts feedback and needs no adjustment.

IMPORTANT Note: Factory set **Tone Open** numbers: **"9**" TONE activates Relay 1. **"0**" TONE activates Relay 0. **"5**" TONE activates Relay 2. For cellular, change the tone open number for Relay 2 to **"8**" TONE. Leave Relay 1 and Relay 0 tone open numbers the same.

3

Troubleshooting

IMPORTANT: The cellular network **distorts DTMF tones** received by the entry system. The **greatest** distortion exists for keys 1-2-3-4-5-6. Keys 7-8-9-0- *****-# work better. Because of this, **ONLY** the latter keys should be used for **TONE OPEN** numbers and the **MASTER CODE**. The entry system will preform better if keys 7-8-9-0- *****-# are used **AND** the feedback adjustment on the 1800 entry system has been **adjusted** for the **cellular network** (see "Voice Testing" on page 3). **Note:** The Master Code can only be programmed using numbers and not the "*****" or "#" keys.

Note: An older 1800 entry system may need to have the circuit board upgraded to be able to handle the distorted DTMF tones from the **cellular network**. Contact DoorKing to see if your system is upgradable or not.

System Not working:

Are the lights on the cellular module ON? If not, make sure cellular power switch on cellular module is ON.

Is the circuit board power LED ON? If not, check the 16.5VAC power transformer wires. Power transformer MUST NOT be connected to a receptacle controlled by a switch.

Poor cellular reception. Look for cellular module "Signal Strength Bars" to be GREEN. If bars are YELLOW or RED, poor or no reception is occurring.

Registration is not complete OR DATA ONLY has been selected. Service suspended because of past due bill. Contact DoorKing for support.

