1830 Series VolP / RS-232 Control Box

DO NOT use this VoIP device to make 911 calls.

Destructive Attack: Line Security: Level I **Endurance:** Level IV Standby Power: Level I Single Point Locking Device: Level I

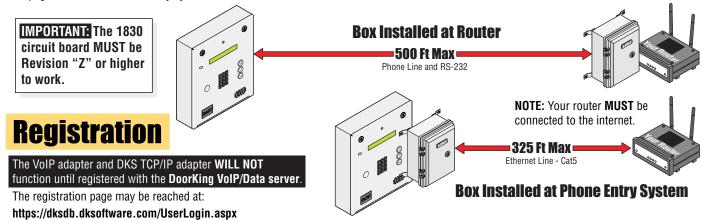
The VoIP/RS-232 Control Box is fee based and operates on DoorKing's network website. The control box provides voice communication and data communication plan selected at DoorKing's Server website.

The VoIP/RS-232 Control Box is designed to be used with: 1833, 1834, 1835, 1837, and 1838 entry systems.

Installation Options:

The VolP/RS-232 control box MUST be wired to the telephone entry system's phone line (voice) and RS 232 connection (data). See page 2.

The VolP/RS-232 control box will work with TWO 1830 entry systems connected to it. These are designated as System A and System B. See next page to wire 1 or 2 1830 entry systems to the box.



Before starting the registration process, be sure to have the VoIP ID number written down. This number is printed on a label on the VoIP adapter. Also the **Master Code** of the phone entry system will be needed for the registration process.

Click the IM/VoIP DKS button on the first screen. Enter your personal information, then click the entry systems tab. Add an entry system by selecting the DKS VolP/Data service.

NOTE: VoIP/Data uses the VoIP adapter AND the DoorKing client mode DKS TCP/IP adapter. (DO NOT select the DKS VoIP only. This is for voice ONLY and data will not function with this selection.)

Enter the VoIP ID number on the decal on VoIP adapter, the optional name of the system A entry system if desired, and your postal area code which will be used for control box phone number selection. Finally, enter the Master Code of the System A entry system, then Click ADD. The entry system will be added to the table above. Click the billing tab and enter billing information. When completed, the VoIP and DKS TCP/IP adapters will be turned **ON** and a phone number will be **automatically assigned** to the control box.

Record the phone number assigned to the control box for your records and also needed when programming the 1830 on page 3.

Installation Steps:

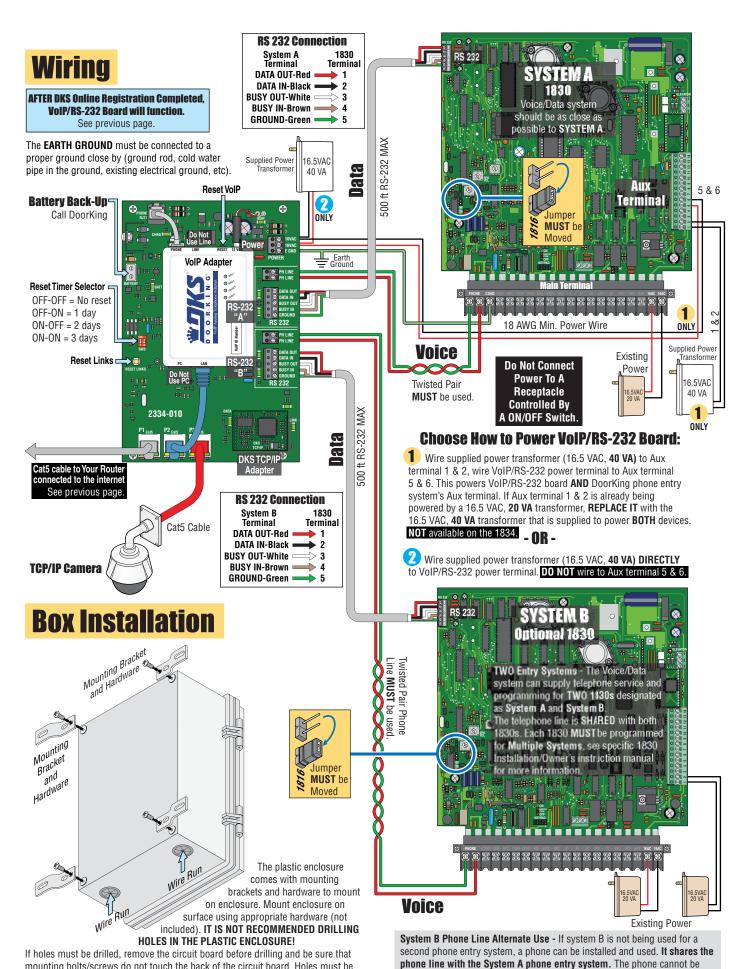
- **1.** Install and wire control box to 1830(s) and your router (page 2).
- 2. Power up control box (page 2).
- 3. Register control box and System A 1830 online (see above).
- **4.** Setup Phone Number/Data over IP on 1830(s) system(s) (page 3).
- 5. Test control box (page 4).
- **6.** Troubleshoot control box if necessary (page 4).

Note: Installation steps assume that the 1830 system has already been setup for the master code (section 3.2.1 in manual) and multiple system programming (section 3.2.9 (*04) in manual) if 2 1830s are being used.





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mounting bolts/screws do not touch the back of the circuit board. Holes must be

sealed to prevent water intrusion.

used while a transaction is taking place on System A.

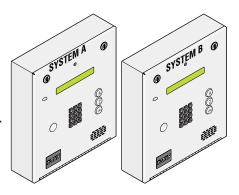
1830(s) Setup Phone # / Data over IP

EACH 1830 MUST be setup after the VoIP/RS-232 control box has been Registered.

The 1830 phone entry system(s) will **NOT** function until this is accomplished.

The 1830(s) circuit board(s) MUST be Revision "Z" or higher to work with Data over IP.

Program next information using the keypad on the 1830 system.



3.2.10 Program in DKS Data over IP Phone Number

The following programming sequence is necessary **when using DoorKing DKS Data over IP**. After installing the Remote Account Manager Software, Version 6.5.a or higher, there is an option to use the DoorKing **DKS Data over IP** service type on the System Information screen.

When registering an entry system online with the DKS Data over IP requires the 10-digit phone number of the entry system which DKS Data over IP WILL ASSIGN when registering your VoIP control box.

This phone number **MUST** be programmed into the entry system to use the **DKS Data over IP**. Factory setting = No number in system

- 1. Press 🔀 🦻 and enter your four-digit MASTER CODE 🔞 🔞 🔞 (beep).
- 2. Enter the 10-digit phone number assigned during registration, then press (beep).
- 3. Press TOGETHER to end this programming sequence (beeeeeep).

6.1.9 Turn DKS Data over IP ON

Use the following sequence to turn DKS Data over IP ON.

The **DKS Data over IP** must be **ON** to use the entry system with **DKS Data over IP**. **Note:** When section 3.2.10 (DKS Data over IP Phone Number is programmed, the **DKS Data over IP** is **automatically** turned **ON**.

If there is **NOT** a valid 10 digit system phone number in memory, the system will emit three (3) short beeps. **Beep** ... **Beep** ...

- 1. Press and enter your four-digit MASTER CODE [2] [2] [2] (beep).
- 2. Press (beep) to turn OFF, OR (beep) to turn ON.
- 3. Press together to end this programming sequence (beeeeeep).

6.1.8 Test Connection to DKS Data over IP

This will allow you to test the connection to the DKS Data over IP or display problems that may have occurred.

1. Press [and enter your four-digit MASTER CODE [] [(beep).

The LCD display will show one of the following and the entry system will BEEP accordingly:

System is Registered - (beep) one beep

- System is registered and communication to **DKS Data over IP** is good.

Check Registration - (beep-beep) two beeps

- Make sure your registration is current and this system is set to **DKS Data over IP** on the registration screen. Also, be sure that the system phone number or ID number and the master code are set the same on **DKS Data over IP** and the entry system.

Program 10 Digit ID - (beep-beep-beep) three beeps

- There is not a valid 10-digit ID in the entry system memory.

Turn DKS Data over IP On - (beep-beep-beep-beep) four beeps

- There is a valid 10-digit ID, but DKS Data over IP is turned OFF.

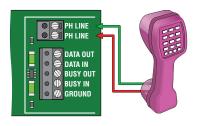
No DKS Data over IP Contact - (beep-beep-beep-beep) five beeps

- Communication to **DKS Data over IP** could not be made.



Testing

Final Testing after the VoIP/RS-232 board has been Registered - All systems should be tested and final adjustments done. Connect a telephone butt set to the VoIP/RS-232 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 control box listing the local phone number that was assigned during registration.



Voice Testing - On the 1830 circuit board lower left corner is a jumper for phone line matching. Remove the jumper from the **UPPER position** and place it on the **LOWER position** labeled **1816**. This allows the 1830 speakerphone **OPTIMUM performance and MUST be done**.

Program a phone number into the memory of the 1830 using the 1830 keypad. Then call that programmed number on the 1830. Have the call recipient press "9" on their phone to open the door. Verify the 9 tone is detected (door will open). Adjust the feedback on 1830 as necessary. This adjustment is **VERY** important for DTMF detection. See specific 1830 Installation/Owner's instruction manual for programming and adjustment information.

IMPORTANT Note: Factory set Tone Open numbers: "9" TONE activates Relay 1. "0" TONE activates Relay 0. "5" TONE activates Relay 2.

Remote Program Testing - Use the DKS Cloud OR Remote Account Manager Software version 6.5.a or later on an internet connected PC for 1830 programming and management. Create an account and open the system Info screen. Enter System A's master code, phone number that has been assigned, and pick DKS VoIP/Data for the service type. If a second 1830 is connected, create a second account with the same settings as above except System B's master code MUST be different. Refer to the Remote account manager software manual for additional settings which MUST be made. Enter some test data into the resident screen and then attempt to send the data to the 1830.



1830 Board

Troubleshooting

IMPORTANT: The Master Code can only be programmed using numbers and not the "*" or "#" keys.

Voice Not working:

- Are the lights on the VoIP adapter ON? If not, look for circuit board power LED. If ON. Power transformer MUST NOT be connected to a receptacle controlled by a ON/OFF switch.
- Registration is not complete OR DATA ONLY has been selected. Service suspended because of past due bill. Contact DoorKing for support.

Data Transfer Not Working:

- Are the lights on the VoIP adapter ON? Is the board power LED ON? If yes, press Reset Links button or cycle power to board.
- Registration is not complete OR VOICE ONLY has been selected. Service suspended because of past due bill. Contact DoorKing for support.
- Wiring error to the entry system. Check RS 232 wiring.
- Master code mismatch. Master code for the 1830, PC software, and DKS VoIP website MUST match each other.
- Check for remote account manager error messages for failure reasons such as memory size, anti passback mismatch, etc, and correct errors.
- 1830 wiegand/RS 232 power is missing. Check for 16.5VAC at 1830 auxiliary terminals 1.2.
- Try connecting a laptop directly to the 1830 and see if possible to transfer data.
- Check the LED lights on the circuit board. During a data transfer the yellow Ethernet data LED should be flashing. The data LED near the TCP/IP should be flashing. • The RS 232 LEDs should be flashing for the proper system either A or B indicating attempted data transfer. If the wrong RS 232 LEDs are flashing, A and B systems are mixed up.
- Check the 1830 baud rate setting. It should be 19200bps. See specific 1830 Installation/Owner's manual. Older 1830s only run at 9600bps (Rev L and earlier) (K and earlier 1838 boards). Call DoorKing tech support for help.
- Network cable (RJ45 cable) loose or unplugged on the VoIP adapter or circuit board.
- Cycle power to the TCP/RS 232 adapter.

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