

1830 Series Programming Connection Options – Your Choice



Dial-up Modem

All DKS 1830 Series systems have a built-in modem as a standard feature. Since almost all of these systems have a POTS (Plain Old Telephone Service) line connected to them for voice communication, the built-in modem and phone line can also be used for data transfer.

Hardware Requirements at Entry System

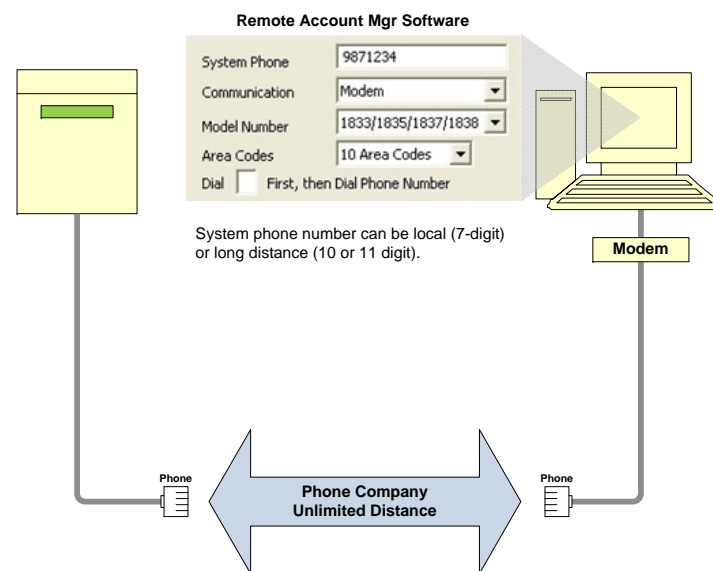
POTS telephone Line. In some cases, digital phone service (VoIP for example) may negatively affect modem service.

Hardware Requirements at PC

Dial-up modem.
Telephone line.

Other Considerations

If your PC does not have an internal modem, an external voice modem will need to be purchased.
Modem setup strings may need to be entered into the programming software.
Data transfer between PC and entry system limited to a single active transmission.
Live transactions are not available using this method.



RS-232 Direct Connection (Cable)

All DKS 1830 Series systems come standard with RS-232 serial data communication terminals. The RS-232 connection is completely separate from the built-in modem and does not use the telephone line connected to the system for data communication.

Hardware Requirements at Entry System

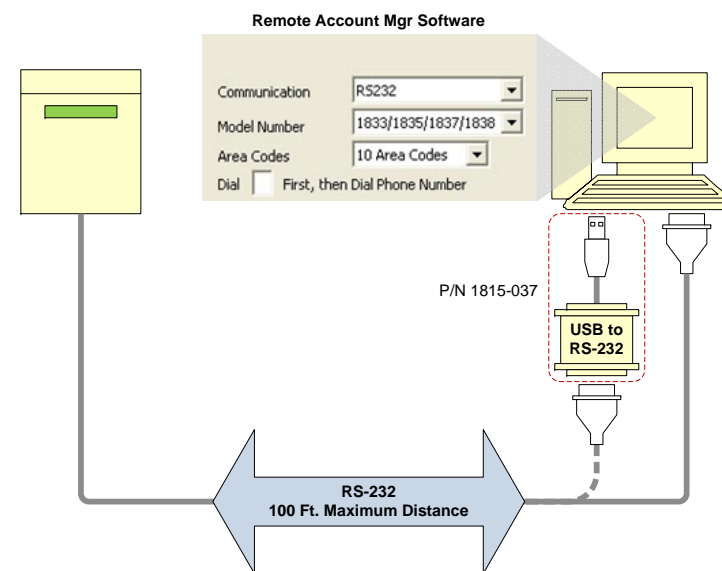
RS-232 5-conductor, shielded serial cable direct to PC.
POTS line required for voice communication.

Hardware Requirements at PC

USB to serial adapter (P/N 1815-037) if connecting more than one entry system to PC.

Other Considerations

Recommended maximum distance from the entry system to the PC - 100 feet.
Additional PCs may be connected using this method. Each must have its own COM port set in the software.
Data transfer between PC and entry system limited to a single active transmission.
Live transaction feature is available.



RS-232 to RS-422 Direct Connection (Cable)

This is similar to the RS-232 direct connection. However, the RS-232 signal is converted to an RS-422 format, allowing for a greater distance in the cable run.

Hardware Requirements at Entry System

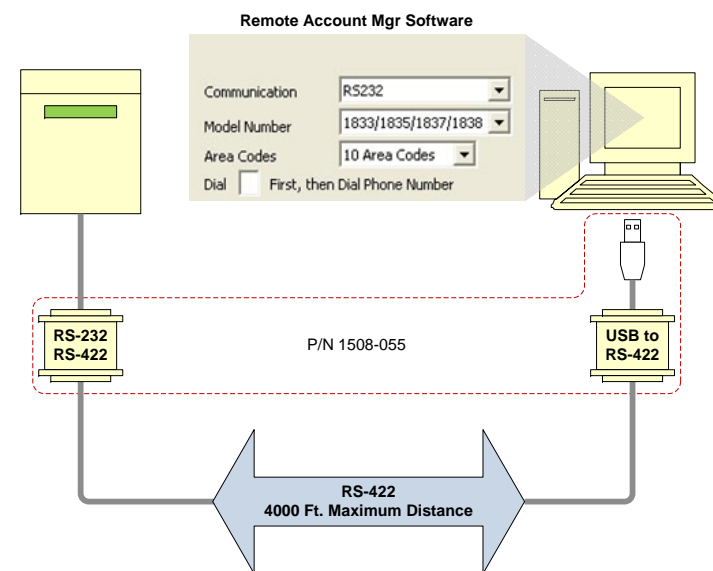
RS-422 to RS-232 adapter (included in kit).
CAT-5 cable direct to PC.
POTS line required for voice communication.

Hardware Requirements at PC

RS-422 to USB adapter kit (P/N 1508-055).

Other Considerations

Distance from the entry system to the PC is limited to 4000 feet maximum.
Additional PCs may be connected using this method. Each must have its own COM port set in the software.
Data transfer between PC and entry system limited to a single active transmission.
Live transaction feature is available.



RS-232 Wireless Connection

This is the same as the RS-232 direct connection, but data is sent and received via a wireless interface. This provides an RS-232 connection in applications where running a cable is not practical. It also allows for a greater distance from the PC to the entry system.

Hardware Requirements at Entry System

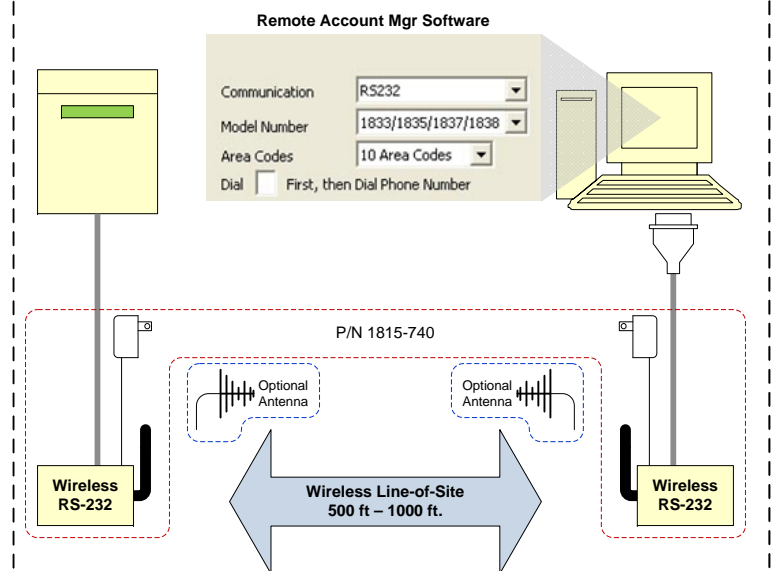
Wireless Modem RS232 kit (P/N 1815-740).
High gain antenna (optional) for increased range (P/N 1815-741).
POTS line required for voice communication.

Hardware Requirements at PC

Wireless Modem USB configuration (included in kit).
High gain antenna for increased range (optional).

Other Considerations

Distance from the entry system to the PC is line-of-site.
Optional high gain antennas can increase distance.
115 VAC power required at phone system to power wireless device.
PC can only connect to a single system using this method.
Data transfer between PC and entry system limited to a single active transmission.
Live transaction feature is available.



1830 Series Network Programming Connection Options – Your Choice



Connection via LAN

Using a TCP/IP network adaptor at the entry system, the system can be connected to a router which can then provide a direct link, via the router, to the PC.

Hardware Requirements at Entry System

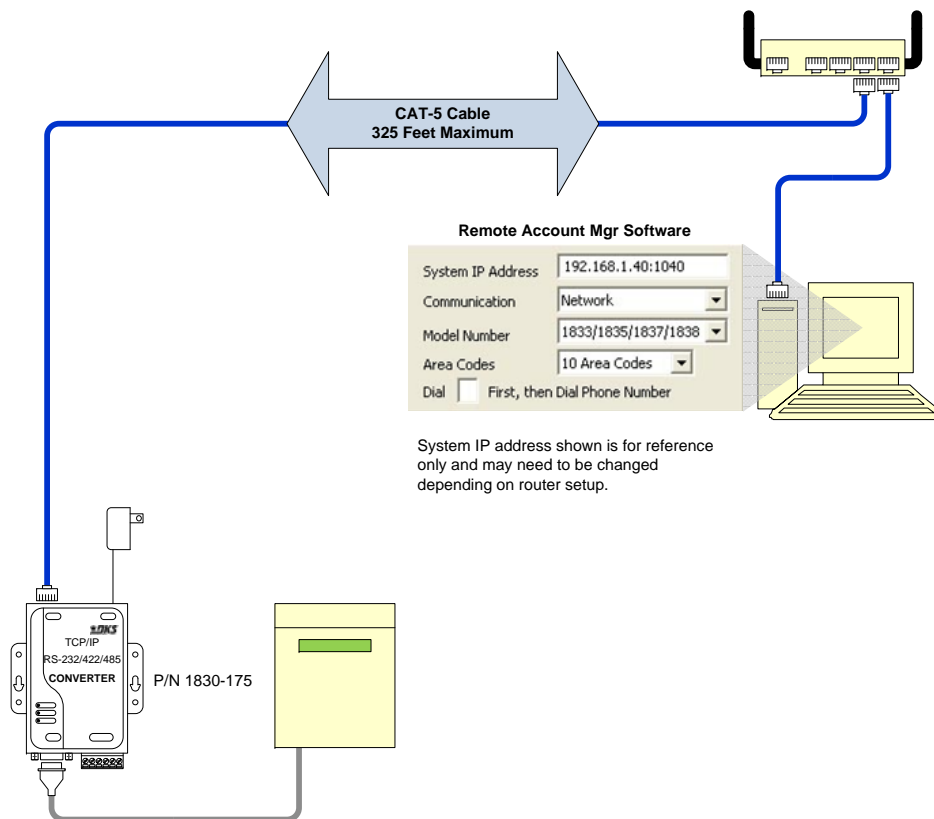
- TCP/IP Network adaptor (P/N 1830-175).
- Ethernet connection to LAN.
- POTS line required for voice communication.

Hardware Requirements at PC

- Ethernet (Network) connection (wired or wireless).

Other Considerations

- CAT-5 cable distance from entry system to router is limited to 325 feet.
- 115 VAC power required at phone system to power network adaptor.
- PC can connect to multiple systems (through the router) using this method.
- Live transactions feature is available using this method.



Connection via WAN (Internet)

Using a TCP/IP network adaptor at the entry system, you can connect to the system by assigning an IP address to the network adaptor, or you can use a DDNS host address.

Hardware Requirements at Entry System

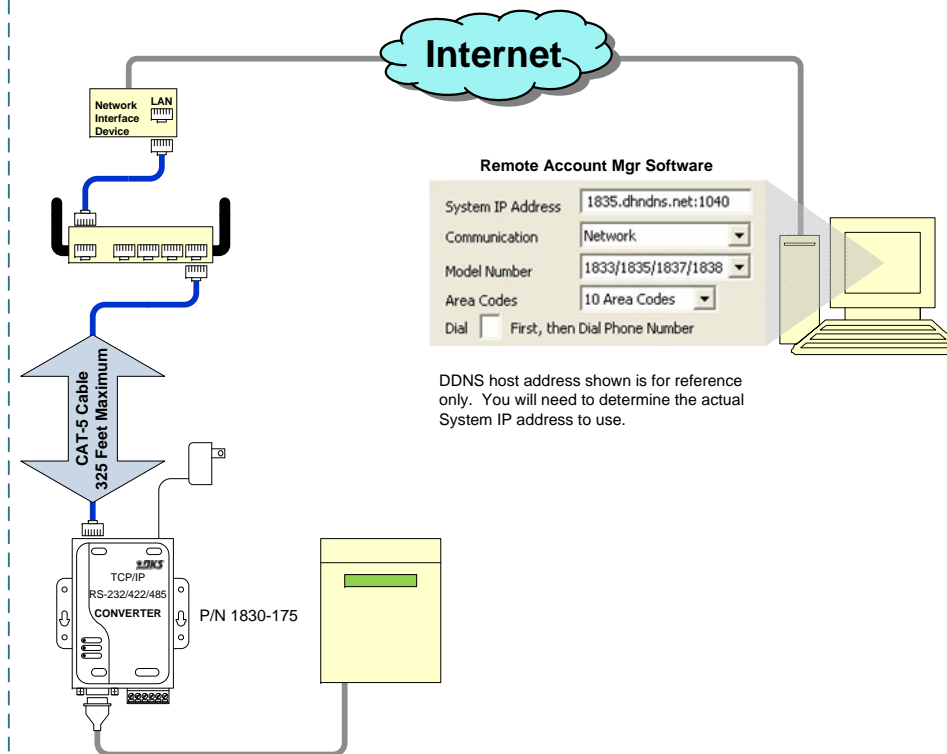
- TCP/IP Network adaptor (P/N 1830-175) and internet connection (assigned an IP address or uses DDNS host address).
- Ethernet connection.
- POTS line required for voice communication.

Hardware Requirements at Remote Site PC

- Ethernet (Network) connection (wired or wireless) with internet access.

Other Considerations

- CAT-5 cable distance from entry system to router is limited to 325 feet.
- 115 VAC power required at phone system to power network adaptor.
- PC can connect to multiple systems (through the internet) using this method.
- Requires DDNS (Dynamic Domain Name Service) host service.
- Live transactions feature is available using this method.



Connection via Internet / DKS Modem Server

Simplest and easiest method to program DKS entry systems. Service is especially useful when managing several entry systems.

Hardware Requirements at Entry System

- POTS (Plain Old Telephone Service) telephone line. In some cases, digital phone service (VoIP for example) may negatively affect modem service.

Hardware Requirements at PC

- Ethernet (Network) connection (wired or wireless) with internet access.

Other Considerations

- No additional hardware at entry system or PC.
- No distance limitations.
- PC can connect to multiple systems simultaneously (through the internet) using this method.
- Backwards compatible, can be used with DKS systems 10+ years old with no hardware changes required.
- Live transactions are not available using this method.
- DKS Internet Modem (IM) Server is a fee based service.

