

# Use these programming instructions only if the factory defaults in the converter need to be changed

## A Windows (Computer) Settings

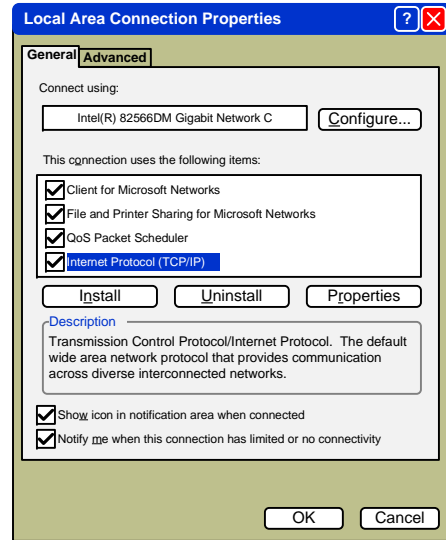
The following defaults in the **CONVERTER** are factory set. If they are satisfactory to your system, there is no need to change them.

IP Address: 192.168.1.40  
 Gateway: 192.168.1.1  
 Port: 1040  
 Baud: 19200

- 1 If these defaults are not satisfactory, navigate to **Local Area Connections** in Windows. (Start – Control Panel – Network Connections – Properties)

Highlight **Internet Protocol (TCP/IP)**

Then click **Properties** to show the Internet Protocol (TCP/IP) Properties Window.

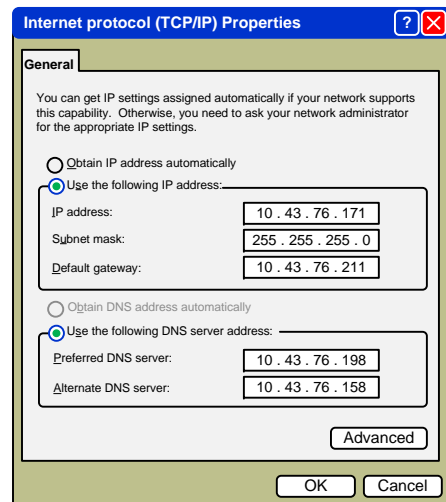


Before proceeding, write down the numbers (or take a screen print) in this window. You are only going to change the IP Address and you will need to put the same IP Address number back when programming of the **CONVERTER** is complete.

- 2 Ex: write down the numbers: (these numbers will not be the same in your computer)

IP Address: 10.43.76.171  
 Subnet mask: 255.255.255.0  
 Default gateway: 10.43.76.211

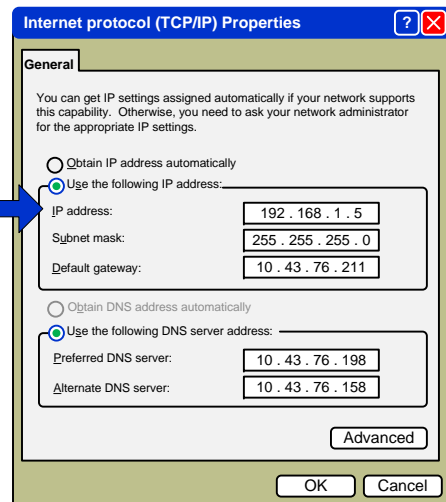
Preferred DNS server: 10.43.76.198  
 Alternate DNS server: 10.43.76.158



- 3 Change IP Address to: **192.168.1.5**

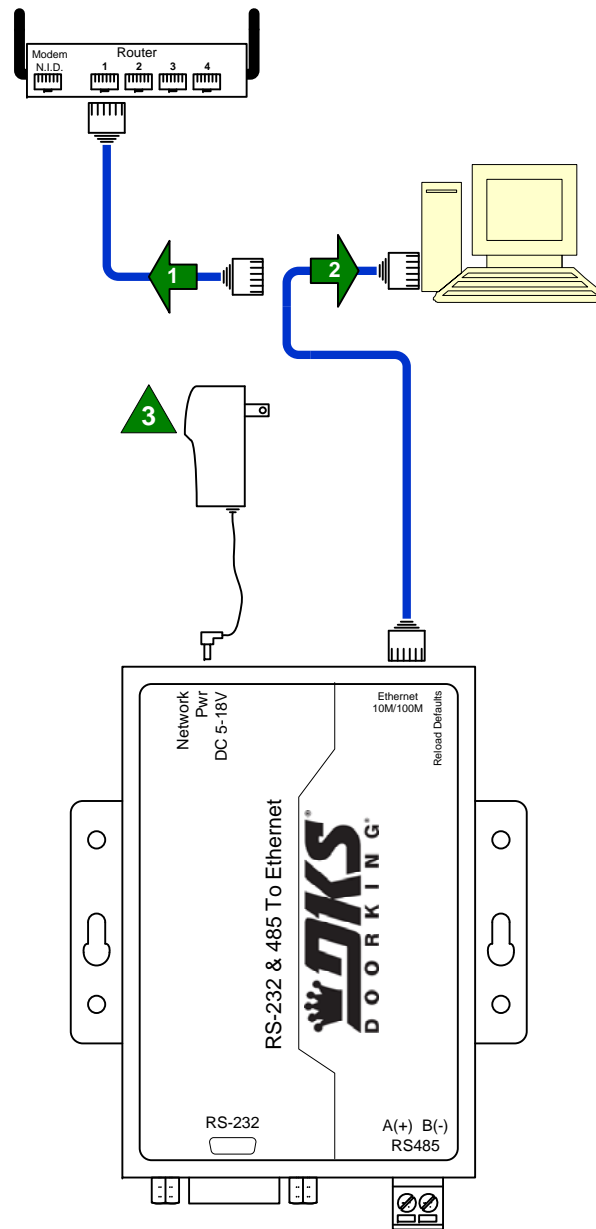
(This will allow your PC to connect to the **CONVERTER** so that you can change its settings.)

**IMPORTANT!** When you are finished configuring the **CONVERTER**, you must set the **IP Address** back to the original settings in order to get access back to your network.



## B Connect 1830-189 for Programming

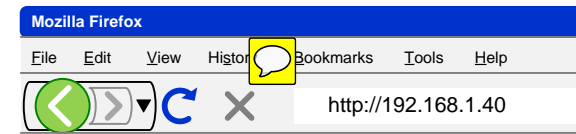
1. Unplug the network cable from your PC.
2. Using the **network cable supplied** with the 1830-186 kit, plug one end into your PC and the other into the **CONVERTER**.
3. Power the **CONVERTER** with the supplied power supply.
4. When completed, don't forget to plug the network cable back into the PC and the 1830-189 cable back into the router.



## C Accessing the 1830-189 Menus

1. Open any browser and type in the address of the **CONVERTER**: **http://192.168.1.40**

The user Log In window for the **CONVERTER** will appear.



Please login:

User name:   
 Pass word:

2. Enter the User name and pass word:  
 User name: admin  
 Pass word: admin

The Status and Configuration window will appear.

### Status and Configuration

1. Current config and status
2. Port0 settings
3. Port1 settings
4. Port2 settings
5. Web to Serial
6. Miscellaneous settings

Name:	USR-TCP232-E45
Firmware Revision:	2017
IP Address:	192.168.1.40
MAC Address:	d8-b0-4c-00-2d-f6

You can access settings of the **CONVERTER** by using the menu at the left in the Status and Configuration screen. Only selections 1, 2 and 6 apply to this module.

It is highly recommended that you **DO NOT** change the password on the authentication screen. DoorKing will not be able to assist you if you don't know your ID or password. This system status window is informational and there's no need to change anything here.

- Reset:**
1. Remove power from module.
  2. Press the Reload button and apply power.
  3. Hold the reload button for 3 seconds, then release.

Module is now reset. TCP IP address will be 192.168.1.40. User name and password will be admin. All other settings will need to be configured.

## D Changing 1830-189 Settings

### Port 0 Settings

The current settings for port 0 may be changed using the form below. To make the new settings apply each time the S3E module is reset, ensure that "Save these as next reset default settings" is checked before pressing the "Submit" button. If this control is not checked, the changes applied to the port but the existing defaults are used whenever the module is next reset.

Baud Rate:	19200	bits/S
Data Size:	8	bits/character
Parity:	None	
Stop Bits:	1	bit(s)
Flow Control and RS485:	Hardware	
Local Port Number:	1040	<input checked="" type="checkbox"/> Bind local port (when TCP Client)
Remote Port Number:	80	
Work Mode:	TCP Client	None Modbus TCP
Remote Server Addr:	207.213.140.7	[N/A]
Timeout:	0	seconds (<256, 0 for no timeout)
UART packet Time:	10	ms (<256)
UART packet length:	512	chars (<1024, 0 for no use)
Sync Baudrate (RF2217 similar):	<input checked="" type="checkbox"/>	

Save these as next startup default settings

**Notes:**  
 Baud Rate can only be set to 9600 or 19200. These are the only two speeds that 1830 Series boards will run at. Leave all other settings as shown when the converter is used in the **Client Mode**.

### IP Address Selection

1. Current config and status
2. Port0 settings
3. Port1 settings
4. Port2 settings
5. Web to Serial
6. Miscellaneous settings

Address Type:	DHCP/AutoIP
Static IP Address:	192 168 1 40
Subnet Mask:	255 255 255 0
Default Gateway:	192 168 1 1

### Password Settings

User name:   
 Pass word:

**Notes:**  
 Enter a new user name and password if desired. The default user name and password (admin, admin) will restore after the module is reset with the reset button.

### General Configuration Settings

Module Name:	USR-TCP232-E45
UPnP port number:	6432
HTTP server port number:	80
Module Id (use for identify module):	1 (1-65535)
Module Id type (0: no use, 1: send id when connect, 2: send id when send data, 3: both):	0 (0/1/2/3)
MAC Address:	d8-b04c-00-2d-f6

**Notes:**  
 All of these settings should be left in the default mode including the HTTP port setting of 80.

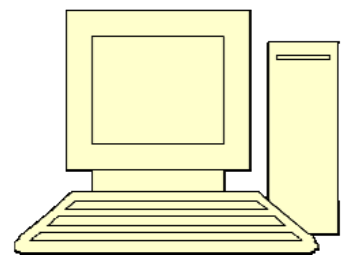
**IMPORTANT!** When you are finished configuring the **CONVERTER**, you must set the Internet Protocol (TCP/IP) Properties screen on your PC back to its original settings in order to get access back to your network.

Follow the instructions **A 1** to get to the Internet Protocol (TCP/IP) Properties screen and then put your old settings back. **A 2**  
 Don't forget to plug the network cable back into the PC **B 1** and the **CONVERTER** cable back into the router. **B 2**

# INSTRUCTIONS FOR 1830-186 TCP/IP CLIENT MODE to RS-232 CONVERTER KIT



## Connection via INTERNET



System IP Address:

Communication:  DK IM Server Client Wait

Model Number: Modem RS232

Area Codes: Diagnostics

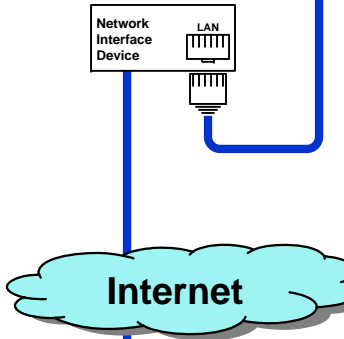
Dial  First, then

DK IM Server Client Wait

DK IM Server Client Poll

Network

Client Wait selected in Remote Account Manager Software V6.3.g or higher. Use Client Wait for systems with a POTS telephone line attached to them.



System IP Address:

Communication:  DK IM Server Client Poll

Model Number: Modem RS232

Area Codes: Diagnostics

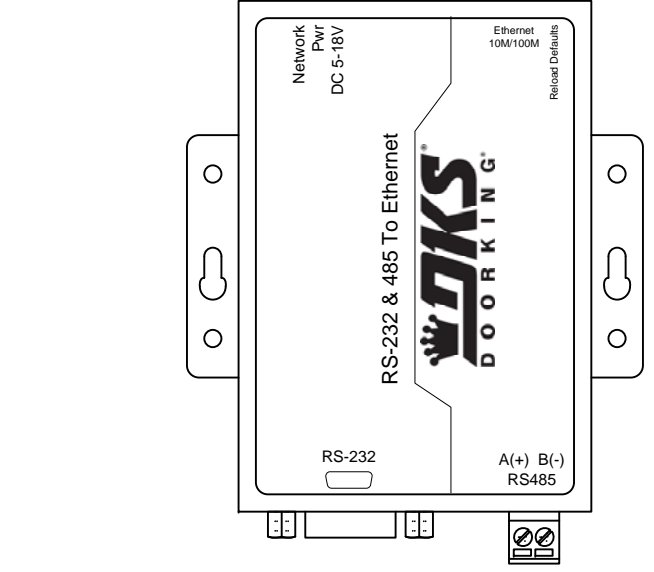
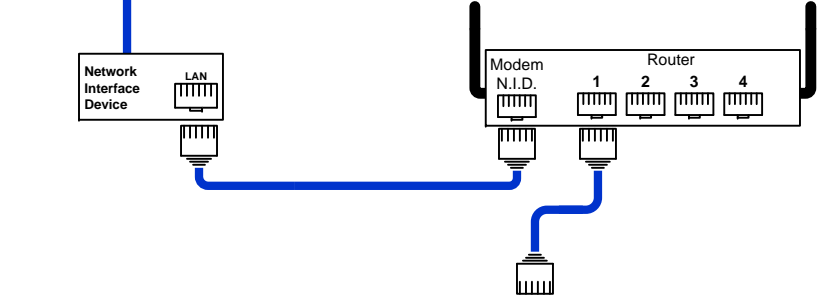
Dial  First, then

DK IM Server Client Wait

DK IM Server Client Poll

Network

Client Poll selected in Remote Account Manager Software V6.3.g or higher. Use Client Poll for systems without a POTS telephone line attached.



## General Information

Use these instructions when you are using the TCP/IP adapter in CLIENT MODE. If you want to use the TCP/IP adapter in SERVER MODE, you must use adapter part number 1830-185 and refer to instruction sheet 1830-181.

You can use the 1830-186 Converter Kit with the following DKS Systems:  
1830 Series Telephone Entry and Access Control Systems (1833, 1834, 1835, 1837, 1838).

Refer to these instruction manuals for additional information:  
P/N 1835-065 Telephone Entry Systems Installation Manual  
P/N 1838-065 Access Controller Installation Manual  
P/N 1835-066 Remote Account Manager Software User Manual

## Connect Converter to 1830 Series Circuit Board RS-232 Terminals

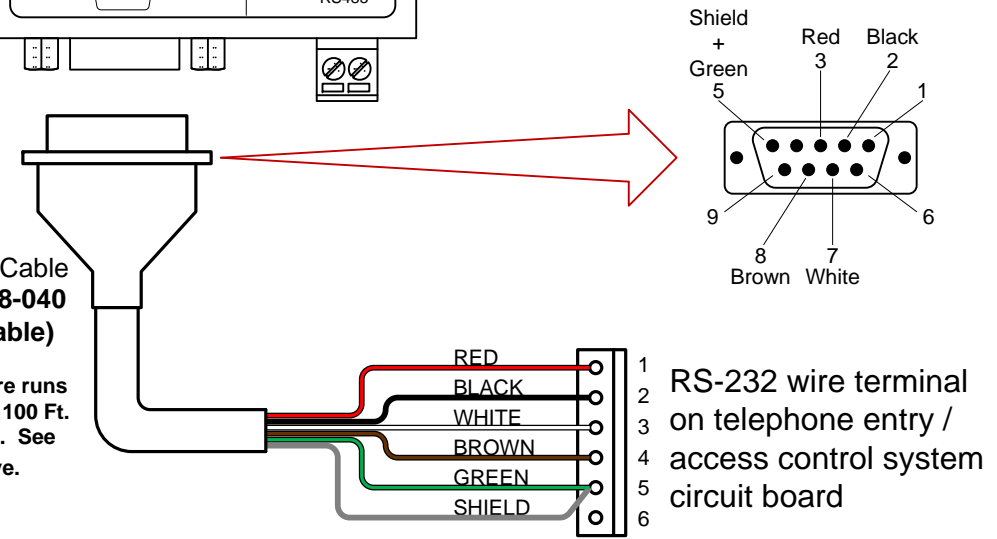


**Note:**  
RS-232 wire runs are limited to 100 feet maximum. If greater distance is needed, use RS232 to RS422 Extender Kit, P/N 1830-190 (4000 Feet maximum distance).

BOARD TERMINALS	DB - 9 PINS	DB - 25 PINS	FUNCTION
1	3	2	Transmit Data
2	2	3	Receive Data
3	7	4	Request to Send
4	8	5	Clear to Send
5	5	7	Signal Ground - Shell
6			Not Used

RS-232 Cable P/N 1818-040 (6 Ft. Cable)

RS232 wire runs limited to 100 Ft. Maximum. See note above.



RS-232 wire terminal on telephone entry / access control system circuit board

## Connection via LAN

System IP Address:

Communication:  DK IM Server Client Wait

Model Number: Modem RS232

Area Codes: Diagnostics

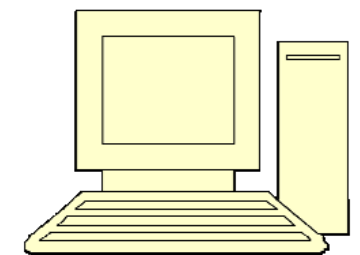
Dial  First, then

DK IM Server Client Wait

DK IM Server Client Poll

Network

Client Wait selected in Remote Account Manager Software V6.3.g or higher. Use Client Wait for systems with a POTS telephone line attached to them.



System IP Address:

Communication:  DK IM Server Client Poll

Model Number: Modem RS232

Area Codes: Diagnostics

Dial  First, then

DK IM Server Client Wait

DK IM Server Client Poll

Network

Client Poll selected in Remote Account Manager Software V6.3.g or higher. Use Client Poll for systems without a POTS telephone line attached.

