Use these programming instructions only if the factory defaults in the converter need to be changed
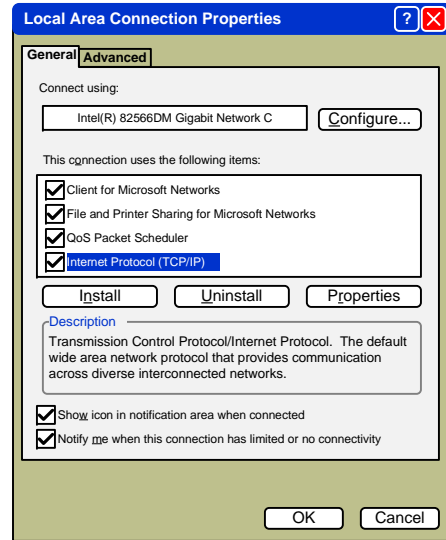
A — Windows (Computer) Settings

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 Protocal (TCP/IP)**

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

Local Area Connection Properties

General | Advanced

Connect using:
Intel(R) 82566DM Gigabit Network C   [Configure...]

This connection uses the following items:
- ☑ Client for Microsoft Networks
- ☑ File and Printer Sharing for Microsoft Networks
- ☑ QoS Packet Scheduler
- ☑ Internet Protocol (TCP/IP)

[Install] [Uninstall] [Properties]

Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

- ☑ Show icon in notification area when connected
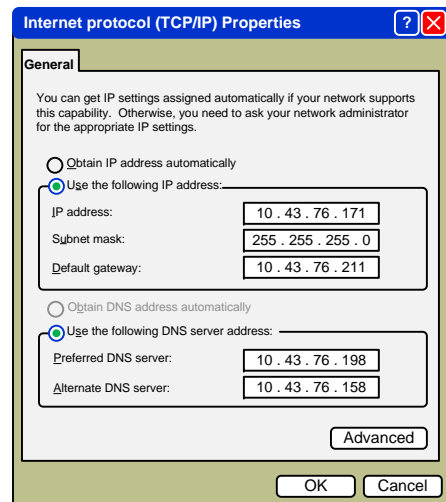- ☑ Notify me when this connection has limited or no connectivity

[OK] [Cancel]

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
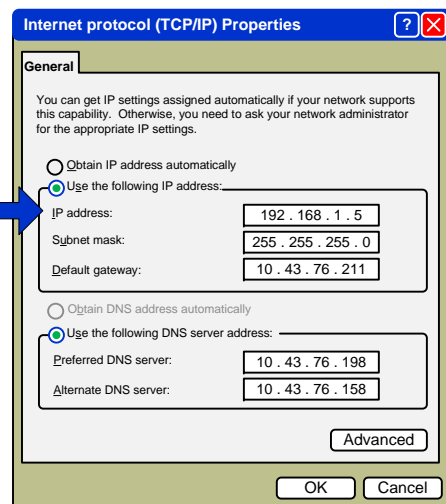Default gateway: 10.43.76.211

Preferred DNS server: 10.43.76.198
Alternate DNS server: 10.43.76.158

Internet protocol (TCP/IP) Properties
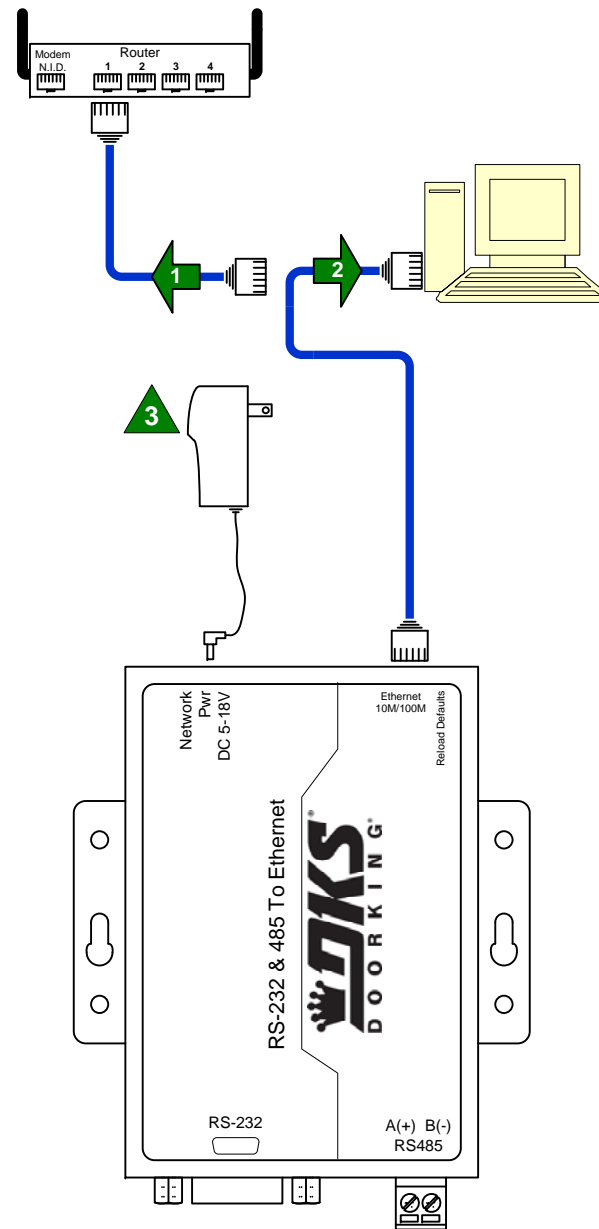
General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

- ○ Obtain IP address automatically
- ● Use the following IP address:
  - IP address: 10 . 43 . 76 . 171
  - Subnet mask: 255 . 255 . 255 . 0
  - Default gateway: 10 . 43 . 76 . 211
- ○ Obtain DNS address automatically
- ● Use the following DNS server address:
  - Preferred DNS server: 10 . 43 . 76 . 198
  - Alternate DNS server: 10 . 43 . 76 . 158

[Advanced]
[OK] [Cancel]

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.)*

Internet protocol (TCP/IP) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

- ○ Obtain IP address automatically
- ● Use the following IP address:
  - IP address: 192 . 168 . 1 . 5
  - Subnet mask: 255 . 255 . 255 . 0
  - Default gateway: 10 . 43 . 76 . 211
- ○ Obtain DNS address automatically
- ● Use the following DNS server address:
  - Preferred DNS server: 10 . 43 . 76 . 198
  - Alternate DNS server: 10 . 43 . 76 . 158

[Advanced]
[OK] [Cancel]

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.

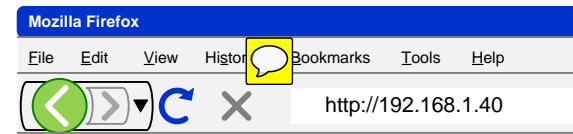## B — Connect 1830-188 for Programming

1. Unplug the network cable from your PC.

2. Using the **network cable supplied** with the 1830-185 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 1830-188 cable back into the router.

Modem N.I.D. | Router 1 2 3 4

1 **2** **3**

Network Pwr DC 5-18V
Ethernet 10M/100M
Reload Defaults

RS-232 & 485 To Ethernet
DKS DOORKING®

RS-232   A(+) B(-) RS485

C — Accessing the 1830-188 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.

Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://192.168.1.40

Please login:
User name: admin
Pass word: • • • • •
[Login]   [Reset]

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** **D** 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 1830-188 Settings

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

The current setting for port 0 may be changed using the form below. To make the new settings apply each time the S2E 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.

Port 0 Settings

	Updated
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 ☑ Bind local port (when TCP Client)
Remote Port Number:	23
Work Mode:	TCP Server ▾ None ▾ Modbus TCP
TCP Server detail:	8 max, typical ▾ type
Remote Server Addr:	192.168.0.201 [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 Baudrete (RF2217 similar):	☑
	[Submit] ☑ 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 **Server Mode**.

---

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

IP Address Selection

Address Type:	Static IP ▾
Static IP Address:	192 168 1 40
Subnet Mask:	255 255 255 0
Default Gateway:	192 168 1 1
	[Update Settings]

Notes:
These are the default settings and should be left alone. If the static IP address is changed, the module will lose communication with the PC. You will need to log into the module at the new IP address using the browser.

Password Settings

User name:	admin
Pass word:	admin
	[Change Password]

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
	[Update Settings]

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.
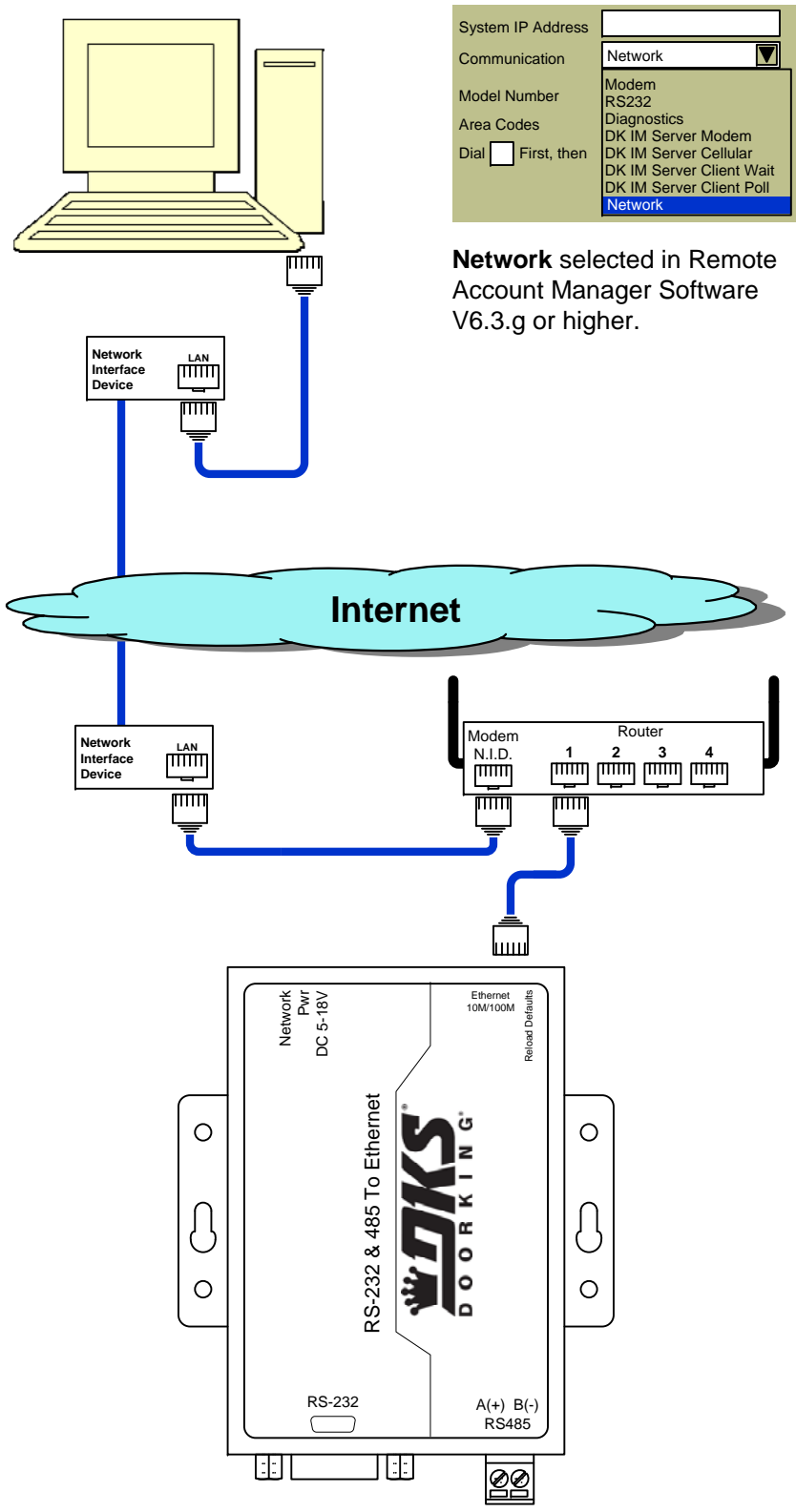
Follow the instructions **A** **1** to get to the Internet Protocol (TCP/IP) Properties screen and then put your old settings back. **A** **2**

Don't forget to plug the netowrk cable back into the PC **B** **1** and the CONVERTER cable back into the router. **B** **2**

INSTRUCTIONS FOR 1830-185 TCP/IP SERVER MODE to RS-232 CONVERTER KIT

DKS DOORKING®

Connection via INTERNET

System IP Address
Communication — Network ▼
Model Number
Area Codes
Dial ☐ First, then

Modem
RS232
Diagnostics
DK IM Server Modem
DK IM Server Cellular
DK IM Server Client Wait
DK IM Server Client Poll
Network

Network selected in Remote Account Manager Software V6.3.g or higher.

Network Interface Device — LAN

Internet

Network Interface Device — LAN

Modem N.I.D. | Router 1 2 3 4

Network Pwr DC 5-18V — Ethernet 10M/100M — Reload Defaults
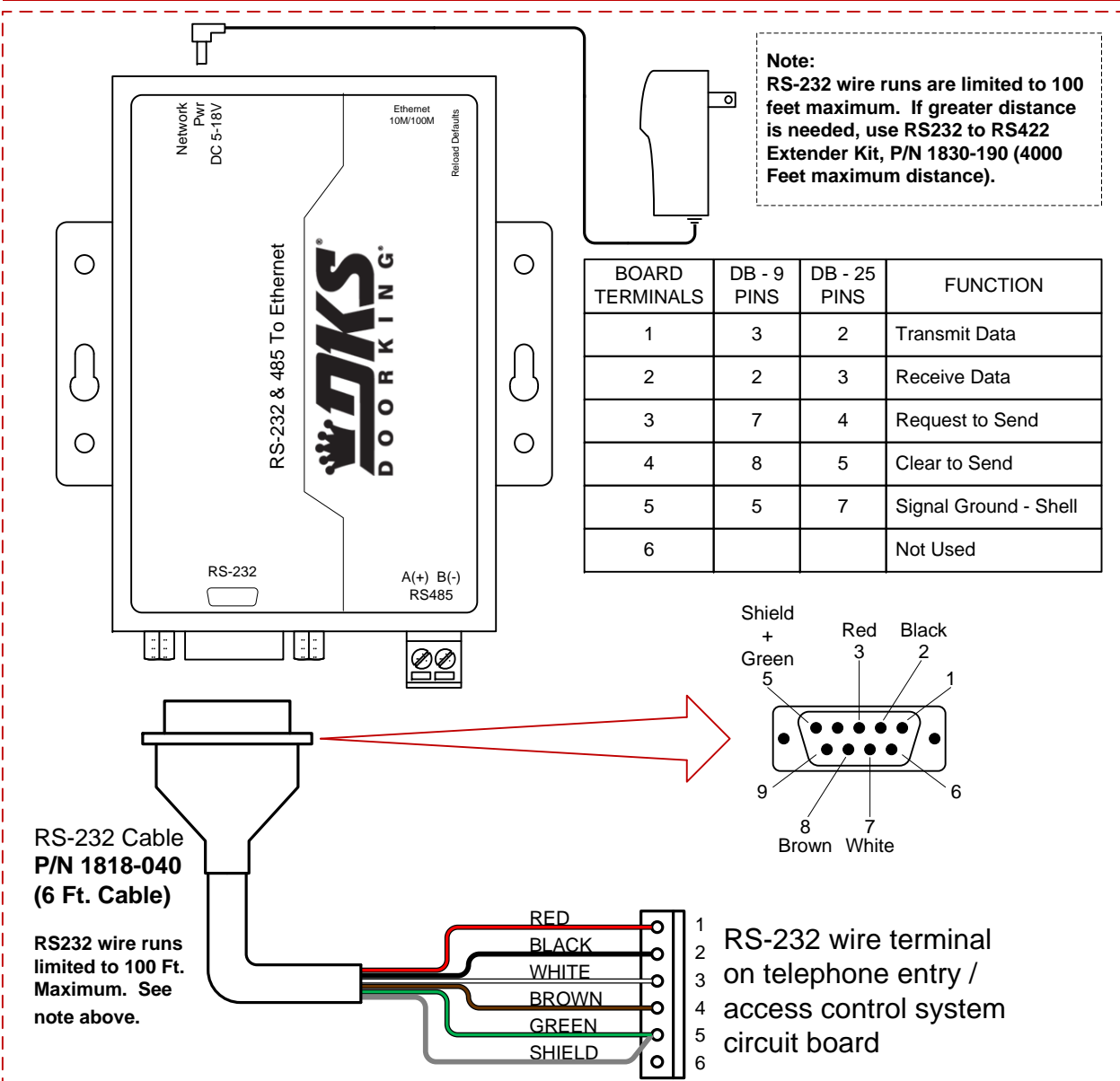
RS-232 & 485 To Ethernet

RS-232 — A(+) B(-) RS485

General Information

Use these instructions when you are using the TCP/IP adapter in SERVER MODE. If you want to use the TCP/IP adapter in CLIENT MODE, you must use adapter part number 1830-186 and refer to instruction sheet 1830-182.

You can use the 1830-185 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

Network Pwr DC 5-18V — Ethernet 10M/100M — Reload Defaults

RS-232 & 485 To Ethernet

RS-232 — A(+) B(-) RS485

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

Shield + Green 5 | Red 3 | Black 2 | 1
9 | Brown 8 | White 7 | 6

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

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

RED — 1
BLACK — 2
WHITE — 3
BROWN — 4
GREEN — 5
SHIELD — 6

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

Connection via LAN

System IP Address
Communication — Network ▼
Model Number
Area Codes
Dial ☐ First, then

Modem
RS232
Diagnostics
DK IM Server Modem
DK IM Server Cellular
DK IM Server Client Wait
DK IM Server Client Poll
Network

Network selected in Remote Account Manager Software V6.3.g or later.

Internet

Network Interface Device — LAN

Modem N.I.D. | Router 1 2 3 4

Network Pwr DC 5-18V — Ethernet 10M/100M — Reload Defaults

RS-232 & 485 To Ethernet

RS-232 — A(+) B(-) RS485