

Overview

The communications station allows you to remotely access an environmental controller. This access gives you nearly all of the same capabilities as using the controller's keypad. The communications station works in conjunction with Link software making it easy to:

- View information such as the current building temperature.
- Change controller settings.
- View equipment status for the whole building.
- Create graphs and reports about the equipment and environmental conditions.

Mounting

Using the mounting brackets provided, attach the communications station enclosure on a wall:

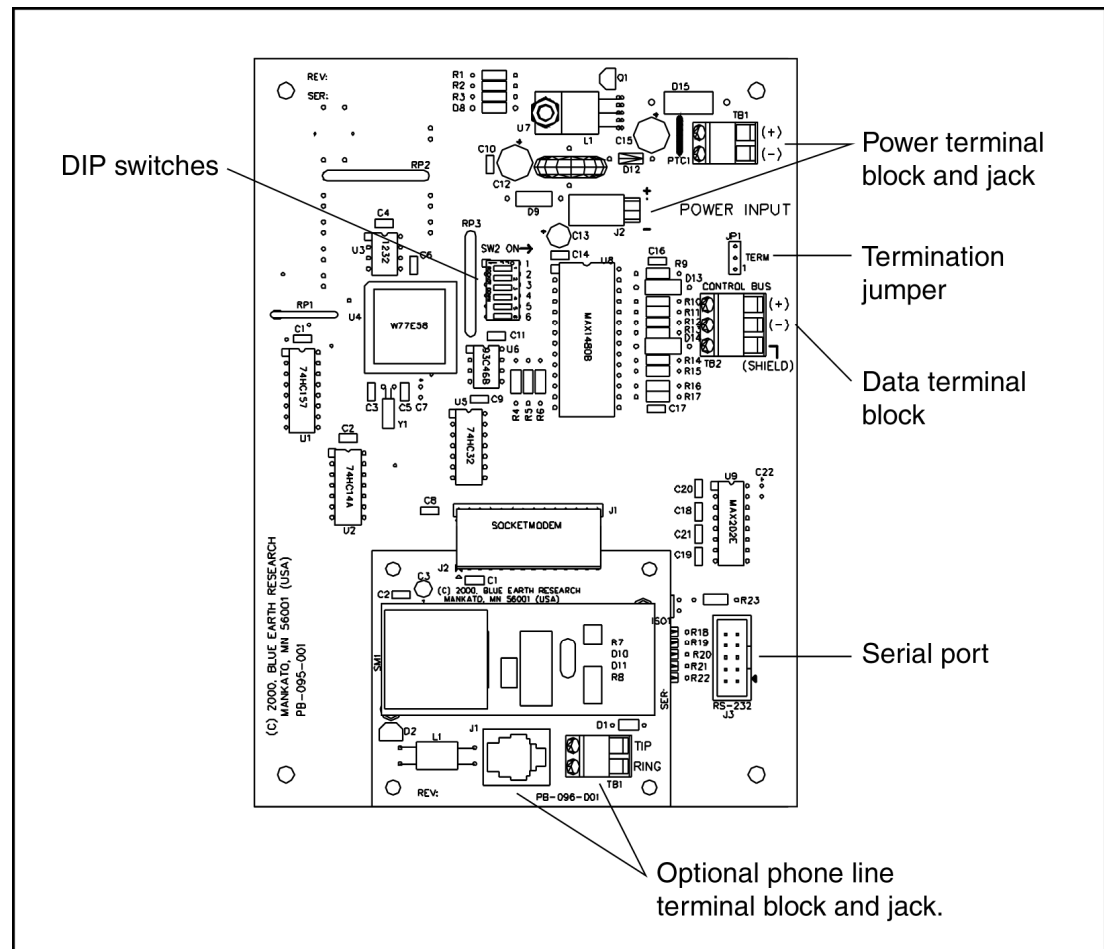
- Near the controllers if used as a modem, or
- Near the computer if used as a PC interface.

Before you drill holes into the enclosure (for the purpose of routing cables) mark their locations and make sure that you do not drill into the circuit board and cables.

Unless absolutely necessary, do not remove the circuit board. It is static sensitive and should always be handled with appropriate grounding and electrostatic precautions.



Board Diagram



Power

The communications station comes with a plug-in 120 VAC to 9 VDC transformer. If only 220-240VAC is available, you will need to find a transformer to convert that voltage down to 9-18VDC, 250ma output.

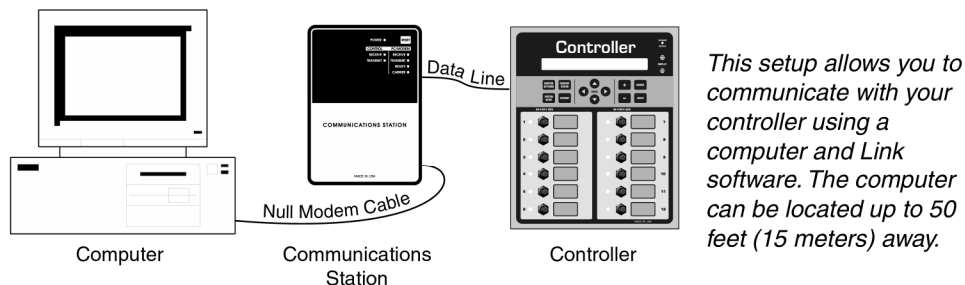
Communication Connection

Option 1: Direct connection to a PC - Attach the 9-pin null modem cable (provided) between the communication station's serial port and your PC's serial port. The cable can be up to 50 feet (15 meters) long.

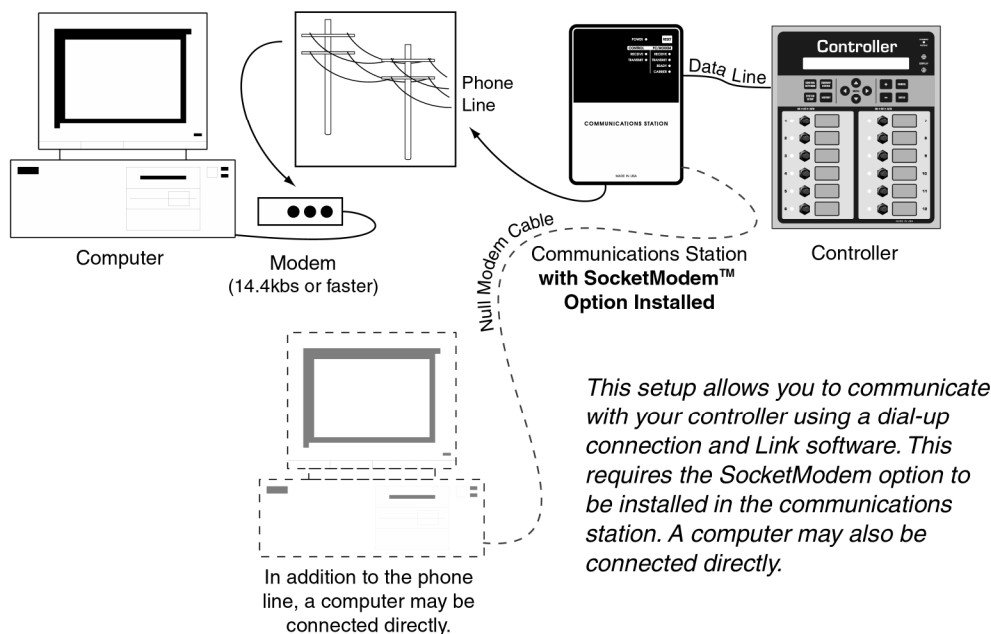
Option 2: Connection to Phone Line Using SocketModem™ - Attach the phone line cable (provided) between the communications station and a phone jack. The communications station has a standard phone jack as well as screw terminals for making the connection. The SocketModem option is designed for use in the USA and Canada only. Option 2 also allows you to connect a computer to the communications station's serial port so that you have a direct connection in addition to the dial-up capability.

Communications Station Connections

1 Direct Connection to PC



2 Connection to Phone Line



DIP Switch Settings

Rings before Answer

If your communications station has the optional SocketModem, you can set the number of rings the communication station will wait before answering. This is done by setting switches 1 and 2 ON or OFF.

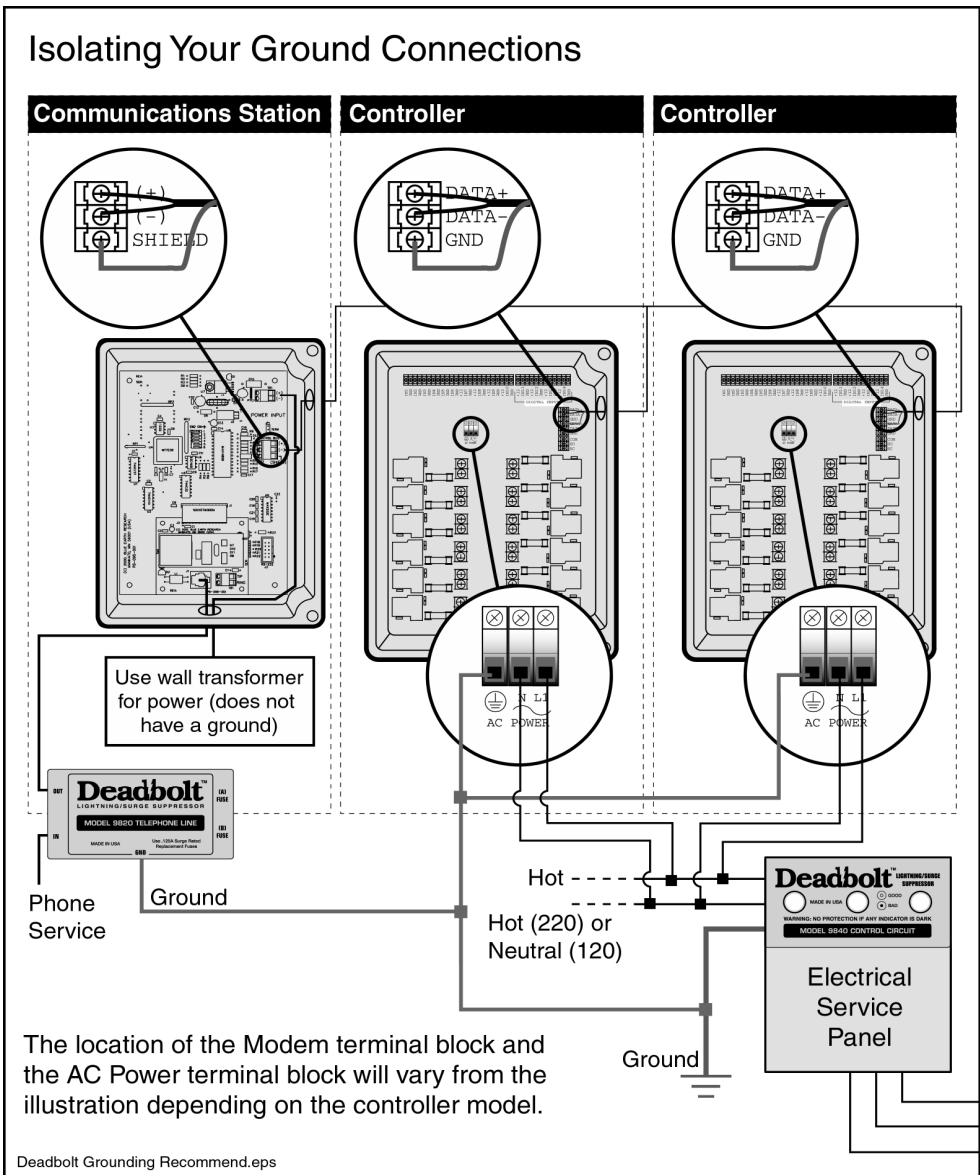
Rings	DIP 1	DIP 2
1 Ring	OFF	OFF
3 Rings	ON	OFF
4 Rings	OFF	ON
5 Rings	ON	ON

Factory

Switches 3, 4, 5 and 6 are set to OFF at the factory. Do not change these switch settings.

Data Line to Controller

Attach the communications station to the controller(s) it will communicate with using shielded two-lead communications wire (22 or 24 gauge). Attach the shield to the shield/ground in each device. Most controllers have “Modem” printed next to the appropriate terminal block.

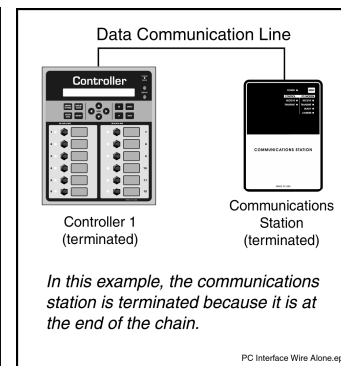
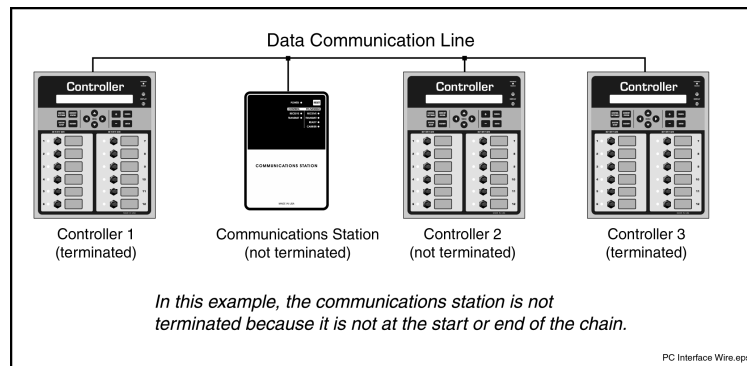


Do not tie the shield to earth ground at any point. This preserves an isolated ground for the communications line. In the event of a nearby lightning strike, the isolated ground will not provide a path to earth ground, minimizing the damage to your equipment.



We recommend the use of Deadbolt™ surge suppressors at the electrical service panel and phone service panel since surges can come through those locations.

Termination



If the communications station is **not** at the beginning or end of a “chain” of controllers, you will need to remove the termination. **Remove termination** by moving jumper J1 (TERM) to pins 2 and 3.

If the communications station is at the beginning or end of a “chain” of controllers, you will need to enable the communication station’s termination. **Enable termination** by moving jumper J1 (TERM) to pins 1 and 2.

Refer to your controller’s *Installation Manual* for instructions on termination settings for the controller.

