VCOM Phone Line Surge Arrester Installation

1-800-348-9843

This document contains installation instructions for phone line surge arresters for VeriComm® control panels. Follow the outlined sequence below.

❶ Getting Started

Read all instructions before proceeding with the installation. Improper installation may void warranties.

1. Inspect your order for completeness and inspect each component for shipment or usage damages. If something is missing or damaged, contact your supplier to obtain replacement parts.

2. Check to ensure the instructions and items supplied conform to state and local regulations.

3. A qualified electrician must be employed to install and service the panel and ancillary wiring. The equipment must be installed in compliance with the National Electric Code, as well as state and local codes.

❷ Surge Arrester Placement

1. Physical installation of the surge arrester should be on a wire tray cover near the VeriComm® control board with the jack marked "PROTECTED" close to the control board.

2. Using the included plastic tie strap, secure the surge arrester to the wire tray cover. To allow for easier troubleshooting in the future, take the cover off the wire tray to ensure that no wires are caught in the tie strap.

3. Locate an empty area of the backplate near the surge arrester and drill a hole with a size 9/64 inch drill bit. NOTE: Be careful not to drill through the back wall of the fiberglass panel! Use the shortest 9/64 inch drill bit available.

4. Using the included screw, secure the included ground wire to the backplate of the panel.

The VCOM panels are part of the VeriComm product line, and work in conjunction with the VeriComm® Monitoring System.

This is a good location for the ground screw.

This is a good location for the surge arrester.

Note ◆

- Failure to secure the ground wire to the backplate will prevent the surge arrester from working properly.

❸ Telephone Line Installation

The VeriComm control panels utilize a common phone line with the homeowner. These panels <u>do not</u> require a dedicated phone line.
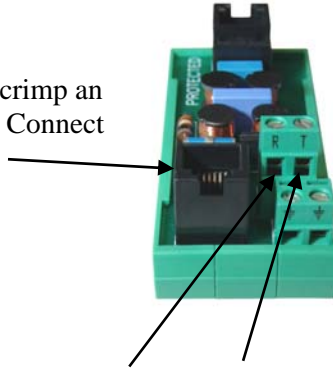
1. Install a standard analog line from the homeowner's phone splice box to the VeriComm control panel.
   <u>Recommended Part:</u>
   Outdoor 4-conductor phone cable
   Radio Shack Cat. #: 278-386

2. If an RJ-11 crimping tool is available, crimp an RJ-11 plug directly to the phone wire. Connect the phone line to the jack on the surge arrestor/DSL filter in the panel.

3. If an RJ-11 crimping tool is NOT available, the red and green phone wire can be terminated at terminals "*R*" and "*T*". The red wire should be connected to "*R*" and the green to "*T*".

4. Using a wire cutter and stripper, adjust the length of the ground wire installed in section 2 to an appropriate length and secure to one of the terminals marked with a ground symbol (⏚). If the phone line has a ground shield, do not connect it to the surge arrester ground.

5. As an added precaution, test the installation of the phone line. This can be done with one of three methods:
   - Check the voltage on the terminals "*R*" and "*T*" with a voltmeter. When the customer's phone line is not in use, the DC voltage difference should be about 24VDC ("*R*" should be the higher voltage and "*T*" should be the common reference).
   - Use an analog handset to test for operation. Plug the handset into the protected side of the surge arrester.
   - Use an inexpensive phone line tester such as model 43-2225 found at Radio Shack. Plug the tester into the protected side of the surge arrester.

Note ◆

- Phone wires should not be run in the same conduit as power wires.

- Do not install the new phone line on the utility side of the phone splice box. Only install new phone extensions on the customer side of the phone splice box.

- The phone line surge arrester / DSL filter requires a good connection to ground to be effective. Ensure that this sub-panel is effectively grounded to the service panel.

- Phone Line Tester model 43-2225 from Radio Shack