



## Remote Supervisor Cat. No. 52000-RS

### Installation Instructions

Cat. No. 52000-RS



DI-020-52000-00B

#### LIMITED 10 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for ten years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such ten year period the product is returned prepaid, with proof of purchase date, and a description of the problem to **Leviton Manufacturing Co., Inc., Attn: Quality Assurance Department, 59-25 Little Neck Parkway, Little Neck, New York 11362-2591**. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to ten years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

For Technical Assistance Call:  
1-800-824-3005  
[www.leviton.com](http://www.leviton.com)

#### DESCRIPTION

The Leviton Remote Supervisor, Cat. No. 52000-RS, is designed for use with both 52000 and 57000 series TVSS panels.

Cat. No. 52000-RS provides remote indication warnings (repeater/annunciator) when TVSS panel failure is detected. Failure warnings from TVSS panels installed in a remotely located area (such as in a basement or electrical equipment room) may not be seen or heard. The Remote Supervisor provides an acoustic beep and flashing LED whenever TVSS panel failure is detected. When this occurs a qualified electrician should be contacted to inspect the TVSS panel and follow proper panel servicing procedures.

TVSS panel products are configured so that multiple panel warning signal lines may be wired in series and terminated in one Remote Supervisor. See Remote Supervisor connection diagrams (refer to Figs. 1-3).

The Remote Supervisor is powered from an ordinary single phase 120V, 60Hz source, by means of a self contained cord and plug. Signal wiring is Class II wire pairs.

#### SPECIFICATIONS

- Designed for use with Leviton 52000 and 57000 TVSS series panels only.
- Illuminated Green LED indicates that the TVSS panels are powered and operating properly.
- Flashing Red LED indicates TVSS panel failure or loss of power. When this occurs the TVSS panels should be inspected by a qualified electrician.
- The acoustic beep compliments the flashing Red LED. After the warning is noted, the tone may be silenced by pressing the audible tone button.
- Built-in circuit tester.

#### GENERAL INFORMATION

- **Input Port** - simple connection via an optically isolated, two-conductor (#18 to #22 Twisted Pair) cable.
- **Power Supply** - included within the Remote Supervisor. Transformer isolation of the power supply and optical isolation of the input signal provides an isolated low voltage remote warning system.
- Suitable for surface mounting. Mounts easily with two screws.
- Designed to monitor up to six SPD panels whose alarm contacts are connected in series.

#### TO INSTALL

**WARNING:** TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

**WARNING:** IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

**WARNING:** TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE WIRING!

**WARNING:** ELECTROCUTION AND FATAL OR SERIOUS INJURY AND PROPERTY DAMAGE CAN RESULT FROM FAULTY INSTALLATION.

**CAUTION:** USE THIS DEVICE ONLY WITH COPPER OR COPPER CLAD WIRE. WITH ALUMINUM WIRE USE ONLY DEVICES MARKED CO/ALR OR CU/AL.

**NOTE:** IT IS RECOMMENDED THAT THE REMOTE SUPERVISOR BE INSTALLED BY A QUALIFIED ELECTRICIAN.

#### 1. TURN OFF POWER.

2. The Remote Supervisor includes one phono jack, which interfaces via a twisted pair cable to status contacts of one or more TVSS panels. **NOTE:** The panel status contacts for remote wiring may be accessed by opening the front cover. They are located on the diagnostic module, mounted on the inside of the front panel.

3. Remote Supervisor-to-panel wiring requirements for one or more (up to six) panels is illustrated in **Figures 1-3**.

**Figure 1** (top) illustrates the required wiring configuration for a twisted pair cable for use with one or more panels. It also illustrates the interconnection of single wires (refer to **Figure 1 bottom**) required for serial connection of up to 5 additional panels. Length (L) of the twisted pair cable is determined in each case by the distance between the panels and Remote Supervisor. Length of the single wires depends upon the distance between panels.

**NOTE:** Cumulative wire run should not exceed 5000 feet. If run is longer than 5000 feet, please contact a Leviton sales representative or distributor for technical information.

As illustrated in **Figure 1**, the center conductor of the plug must be wired to the "C" status contact and the plug shell must be wired to the "NC" of the status contacts.

Wiring for a single panel is illustrated in **Figure 2**. Wiring for multiple panels is shown in **Figure 3**. It does not matter in which order the panels are connected.

**NOTE:** The last "NC" status contact in a Remote Supervisor serial wiring chain must be part of the twisted pair cable connecting back to the Remote Supervisor and will be electrically connected to the plug shell, as illustrated in **Figure 3**.

4. Connect customer supplied two conductor wiring (#18 to #22 AWG twisted pair) as illustrated in **figure 2**. If connecting a multiple panel serial chain, use single conductor wiring (#18 to #22 AWG) wire.

Remote wiring connections to the panels are made through the plugged 7/8" hole on the hinged side of the panel enclosure.

**NOTE:** Since the panel remote wiring shares the same enclosure as the power wiring, use wire rated for at least 600 VAC.

5. Locate the Remote Supervisor near a 120 VAC outlet (cord length is 6 feet). When the exact location is determined make two vertical marks, 2-3/4 in. apart, for the mounting screws.

**NOTE:** If mounting the Remote Supervisor onto drywall, use the drywall anchors included.

a. Partially insert the two screws supplied. Be sure to let the underside of the screw heads protrude 3/8" (max.) from the mounting surface.

b. Mount the Remote Supervisor onto the screws using the two slotted holes on the rear of the unit.

6. After the Remote Supervisor wiring is completed, the panel status contacts are connected, the opened panels are closed and the phono plug is connected to the Remote Supervisor. Then, plug-in the Remote Supervisor AC power cord and apply power to the panels. The Remote Supervisor Green LED will be illuminated if all panel modules are operating properly.

7. Test the Remote Supervisor and wiring by pressing and holding in any one of the connected panel Press-to-Test buttons (this requires two people). Alternatively, the unit may be tested by temporarily disconnecting the line to the phono jack at the Remote Supervisor. The following should occur:

- The Green LED will turn OFF and the Red LED will blink.
- The audible tone will beep. Pressing the audible-tone disable button will silence the beep, the Red LED should continue to flash, and the disable button will light Red.
- Release the Press-to-Test button or reconnect line to the phono jack the test is now complete.

**NOTE:** Audible tone button must be momentarily pressed to restore the ready condition.

• The Green LED will turn ON and stay on to indicate the unit is operational.



Fig. 1 - Twisted Pair and Single Wire Cable Configurations

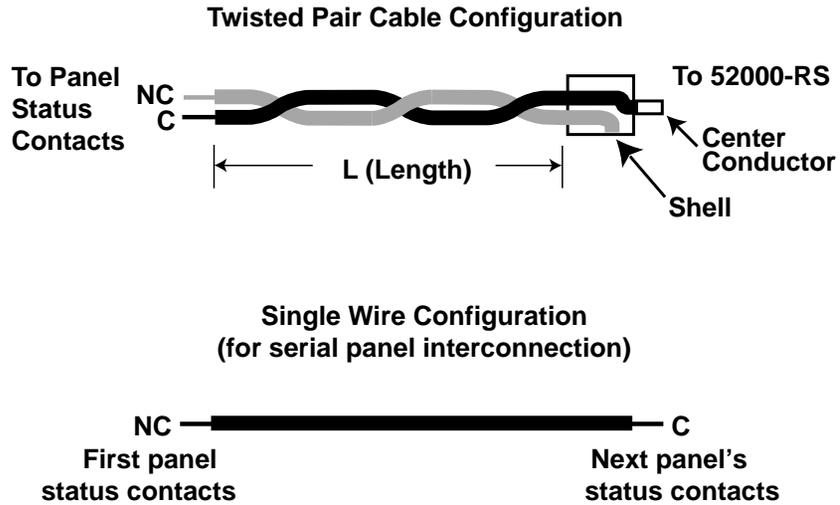
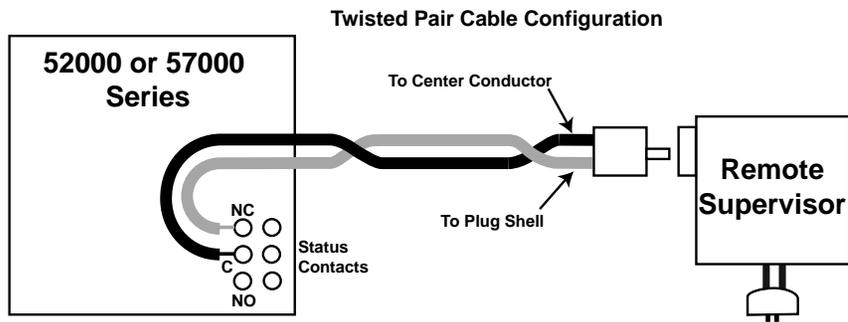


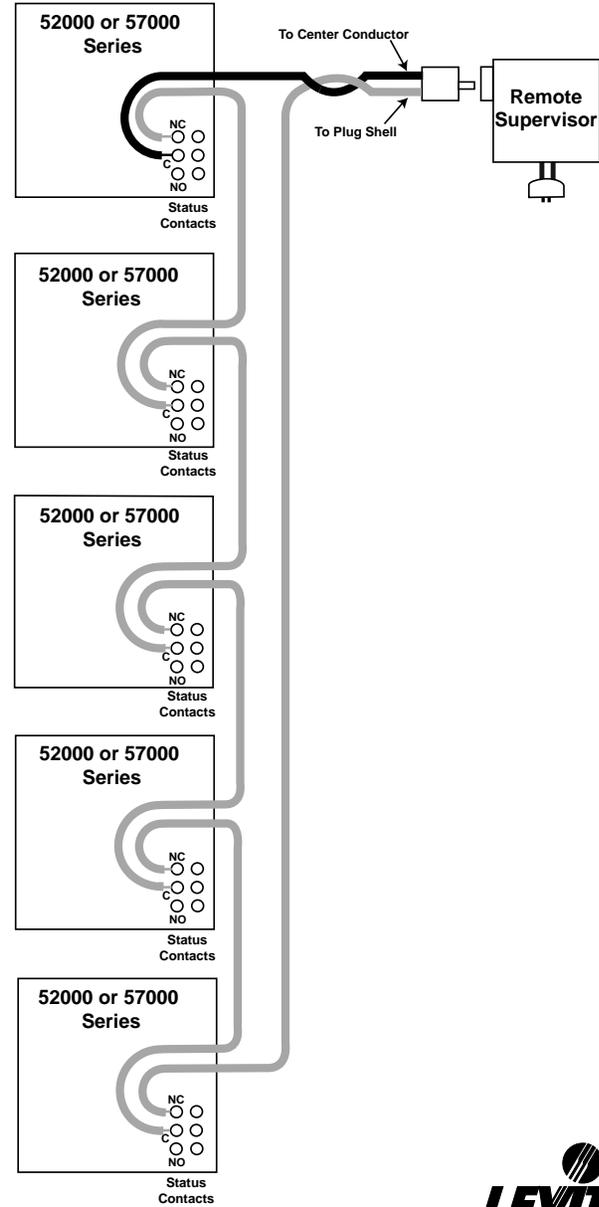
Fig. 2 - Single Panel Remote Wiring



3

DI-020-52000-00B

Fig. 3 - Multiple Panel Remote Wiring

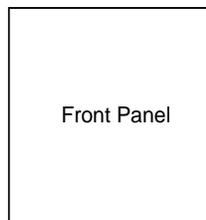
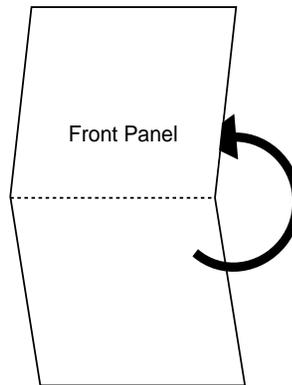
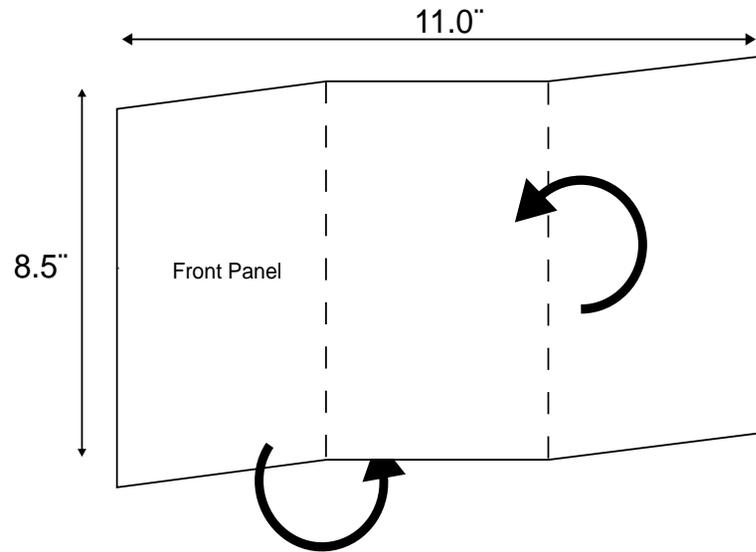


4





# FOLD SCHEME



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 ..... Center Line