

PRE-WIRE INSTALLATION INSTRUCTIONS rev3.1

Please read these instructions and refer to enclosed riser diagram before proceeding. If you have any questions please call Varitronics at 610-356-3995.

CAUTION: Follow all local electrical codes.

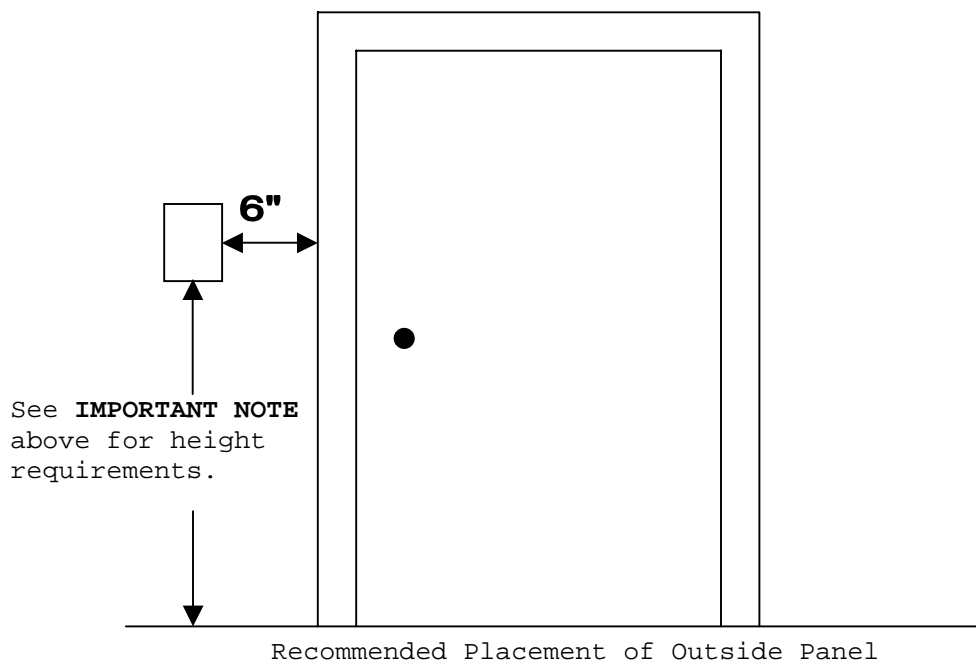
Varitronics supplies all special back boxes unless otherwise specified. We do not supply single gang and two gang back boxes. See Box and Plate Charts for correct dimensions.

STEP 1: Installing Room Back Boxes.

A. PLACEMENT RECOMMENDATIONS.

- Inside room back boxes should be mounted at the location specified by the doctor or personnel in charge. See **IMPORTANT NOTE** below for height requirements.
- Outside room boxes should be mounted outside the door of each room. The edge of the box should be at least 6 inches from the side of the doorframe molding.
- **IMPORTANT NOTE:** Please refer to ADA regulations for proper back box mounting height of all room panels. See Figure 1 below.
- For Ergonomic height, we recommend mounting the outside room back box 58 inches from the bottom of the box to the floor. **However this does not meet ADA regulations.**
- All back boxes must sit flush with the wall.
- Allow 3/4" clearance around all back boxes.

FIGURE 1



- B. #3300 series panels require 3300BB back boxes and **are supplied by Varitronics.**
- These boxes are mounted vertical, long dimensions up and down.
 - Mounting bezels are required and **are supplied by Varitronics.**
- C. #5500 and #2G series panels require standard double gang back boxes and are supplied by others. Mounting bezels are required and **supplied by Varitronics.**
- D. PGX7000 series panels require 2 ½" deep double gang switch boxes and are supplied by others.
- RACO No.512 gangable switch box (2 required) or equivalent.
 - ***Do not use** beveled corner boxes, mud-rings, or outlet boxes.
 - Mounting bezels are required and **are supplied by Varitronics.**
- E. #SG series panels require single gang back boxes and **are not provided by Varitronics.**
- F. #4G series panels require four gang back boxes and **are supplied by Varitronics.**
- These panels can be mounted horizontally or vertically. **See riser for correct orientation.**

Step 2: Installing Master Panel Back Boxes (#3100 & #3200 series).

- A. Master Panel boxes should be mounted at the location specified by the doctor or personnel in charge.
- B. All back boxes must sit flush with the wall.
- C. Allow 3/4" clearance around all back boxes.
- D. These boxes are mounted horizontal, longest length side to side, unless otherwise noted.
- E. The cable holes and/or slots in these boxes are mounted toward the ceiling.

Step 3: Running Cable.

- A. Make sure you have the correct conductor, gauge, and type (PVC or Teflon) cable as specified on the Riser Diagram. Leave three feet of cable at each box.
- B. Master Panels requiring 50-conductor cable must have pre-terminated right angle CHAMP IDC Connectors or equivalent (typical telephone connectors). These cables connect to pigtails extending from the Master Panel, which are terminated with the correct opposite sex connector. Leave three feet of slack at each box.
- C. **Important!** If the cable is not being purchased through Varitronics, call the factory for the correct sexes that these

cables require. If it is being purchased through Varitronics, call the factory with the correct lengths required.

Step 4: Mounting the Power Supply.

- **IMPORTANT NOTE:** All power supplies require a 110 VAC receptacle within three feet of mounting location.
- A. **1003-PS:** The power supply is shipped with the system. It is surface mounted and requires a three-foot by three-foot sheet of 5/8" plywood to secure it to the wall. It should be in a spot readily accessible (closet, utility room, etc.), so the system can be turned on and off daily.
- **WARNING!** Under no circumstance should the unit be mounted in a ceiling. Mounting in the ceiling will void all factory warranties.
- B. **W100-PS:** The power supply is shipped with the system. It is surface mounted and requires a four foot by four foot sheet of 5/8"plywood to secure it to the wall. It should be in a spot readily accessible (closet, utility room, etc.), so the system can be turned on and off as needed.
- **WARNING!** Under no circumstance should the unit be mounted in a ceiling. Mounting in the ceiling will void all factory warranties.
- C. **LCW100-PS:** A large chassis power supply combines both the breakout box and power supply in one unit. It is surface mounted on a four by four sheet of 5/8" plywood and receives cabling from the top.
- Bracketing is required for mounting and is not supplied by Varitronics.
- D. **LPW100-PS:** The low profile power supply is surface mounted on a four foot by five foot sheet of 5/8"plywood. It is larger the W100-PS. See Box And Plate Charts for correct dimensions.
- Bracketing is required for mounting and is not supplied by Varitronics.

Step 6: Mounting the Breakout Box.

- A. The breakout box is shipped with the system. It is surface mounted and is placed above or next to the power supply on the same sheet of plywood. Interface cables are supplied by Varitronics at a maximum distance of two feet.
- B. Breakout boxes receive panel cabling from the top.
- C. The low profile breakout box is shipped with the system. It is surface mounted and is placed within one foot above the power supply on the same sheet of plywood.

BOX AND PLATE CHARTS

| Series or Part No. | Dimensions | Notes |
|--------------------|-------------------|--|
| *3300 Plate | 3 ½" X 7 3/8" | Room Panel Plate |
| 3300 Bezel | 3 7/8" X 7 3/4" | Plate Frame |
| 3300BB | 2 7/8" X 6 5/8" | Back Box |
| *5500 Plate | 4 ½" X 4 ½" | Standard Two Gang Back Box |
| 5500 Bezel | 4 7/8" X 4 7/8" | Plate Frame |
| SG or SS Plate | 2 ¾" X 4 ½" | Single Gang |
| 2G Plate | 4 ½" X 4 ½" | Standard Two Gang Back Box |
| 4G Plate | 5 ½" X 9" | Four Gang |
| 4GBB | 3 11/16" X 7 3/8" | Back Box |
| *PGX7000 Plate | 4 ½" X 4 ½" | **Raco 512 gangable switch box (2 required) or equivalent. |
| Custom Plate | Customer's Specs. | Custom Plate |
| Custom BB | Customer's Specs. | Custom Back Box |

*Mounting bezel required. Supplied by Varitronics.

2.5" depth required. **Do not use beveled corner boxes, mudrings, or outlet boxes.

| Part No. | Master Back Box | Master Panel |
|---------------|----------------------|-----------------|
| #3100 series | 11" X 5 ¼" X 3" | 6 ¼" X 12" |
| #3206 & #3207 | 12" X 7" X 3" | 8 ½" x 13 ½" |
| #3210 & #3212 | 15" X 8 ½" X 3" | 10" x 16 ½" |
| #3214 & #3216 | 23" X 10" X 3" | 11 ½" x 24 ½" |
| #3220 & #3221 | 25" X 10 3/8" X 3 ½" | 1 ¾" x 26 ½" |
| CUSTOM SIZE | Customer Specs. | Customer Specs. |

| Part No. | Breakout Boxes | Part No. | Power Supply Dimensions |
|----------|----------------------|-----------|-------------------------|
| #3206BOB | 12" X 7" X 3" | 1003-PS | 8 ½" X 7" X 4" |
| #3210BOB | 15" X 8 ½" X 3" | W100-PS | 18" X 15" 5" |
| #3216BOB | 23" X 10" X 3" | LPW100-PS | 30" X 10" X 14" |
| #3220BOB | 25" X 10 3/8" X 3 ½" | LCW100-PS | 30" X 10" 24" |
| #LP-BOB | 36" X 25" X 5" | | |