

TH116

01/08/03 920-113-001-00-1-A

PB112-024T



Installation Instructions 24 V Low-Voltage Power Base

4.1 Single SSR with Built-in Transformer

Applications

The PB112-024T power base can be used on any TH11x series thermostat (with the exception of the TH110 model). This low-voltage power base operates on 15-minute cycles and can be connected to a line-voltage load using a relay or directly to a 24-volt device. The PB112-024T is compatible with most relays; however, the following Aube relays are optimized for use with this power base:

- RT850 solid-state relay (SSR)
- RT850T solid-state relay (SSR) with built-in 24-V transformer
- RC840 electromechanical relay
- RC840T electromechanical relay with built-in 24-V transformer

Supplied Parts

- One (1) power base
- 2 Two (2) plastic anchors
- Two (2) mounting screws

Installation Guidelines

- For a new installation, choose a location about 1.5 m (5 ft.) above the floor.
- The thermostat must be installed on an inside wall facing the heating system (except for floor heating systems).
- Avoid locations where there are air drafts (top of staircase, air outlet), dead air spots (behind a door), direct sunlight or concealed chimney or stove pipes (except for floor heating systems).

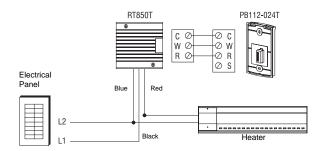
Installation Procedure

The installation must be carried out by an electrician and comply with local electrical codes.

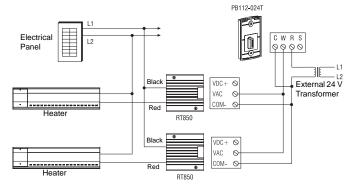
- Turn off power to the heating system at the main electrical panel to avoid electrical shock.
- Wire the base according to your application. See typical wiring diagrams in sections 4.1 to 4.4.
- For a floor heating system installation, connect the floor sensor between the S and R terminals.

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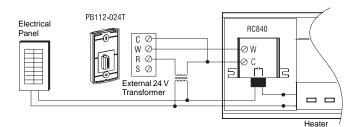
- Secure the base to the wall using the provided screws and wall anchors.
- Configure the switches located on the control module (if any). Refer to the user guide.
- Install the control module onto the base.
- Apply power to the heating system.
- Verify the installation by checking that the heating system can be turned on or off using the thermostat.



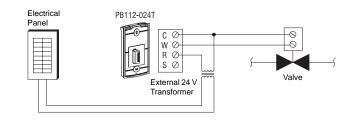
4.2 Multiple SSRs with External Transformer



4.3 Electromechanical Relay with External Transformer



4.4 Hot Water Heater Valve



5 Technical Specifications

Maximum load: 0.5 A / 24 VAC

Heating cycle length: 15 minutes Operating temperature: 32°F to 122°F (0°C to 50°C) Storage: -4°F to 122°F (-20°C to 50°C) Size (H • W • D): 124 x 70 x 23 mm (4.89 x 2.76 x 0.91 in) Wire gauge: 14 to 22 AWG