

Wireless Receiver Kit Guide for Tankless Water Heater Activation



Overview

This guide explains how to use the AutoHot wireless signal receiver and push button to activate tankless water heaters with integrated recirculation pumps. The receiver provides a wireless 'dry contact' closure equivalent to a wired push button, allowing the tankless unit to operate in on-demand recirculation mode.

Safety & Scope

- The receiver's signal output is a dry contact only (no external voltage).
- Connect only to the heater's designated 'remote switch' or 'demand recirculation' terminals.
- Do not inject voltage into the heater's low-voltage inputs.
- Power the receiver using batteries or a low-voltage DC source.

Standard Wiring Diagram

The wireless receiver's two signal wires connect to the tankless water heater's dry contact terminals (the same terminals used for a wired push button). The receiver can be powered by batteries or DC supply.

Brand Specific Instructions

Rinnai

Use the dedicated on-demand recirculation input or Control-R accessory. Connect the receiver's two wires where a push button would connect. Location is typically at the bottom low-voltage block.

Navien

Connect to HotButton input terminals. Multiple buttons can be wired in parallel. Found on the main control board.

Noritz

Use the external push button/demand recirculation terminals. Shown in the On-Demand Recirculation Installation Manual.

Rheem

Use the on-demand accessory or terminal block provided for recirculation mode activation. Found inside the service panel.

A.O. Smith / State / American

Connect to the 'Pump Connector' dry contact port. Manuals specify this as a normally open dry contact input.

Bosch (Greentherm)

Connect to the recirculation control terminals on the application board. Manuals show dedicated terminals.

Bradford White (Infiniti)

Units support remote/demand activation via low-voltage input block. Refer to GR/K series manuals.

Takagi

Connect to the push button/dry switch terminals on the main control board as described in TK/TH manuals.

Troubleshooting

- If the heater does not respond, verify the receiver relay is closing (check continuity).
- Confirm correct terminal locations by reviewing the manufacturer's manual.
- Ensure batteries powering the receiver are fresh.
- Check the water heater's menu to confirm recirculation/demand mode is enabled.

Appendix: Reference Manuals

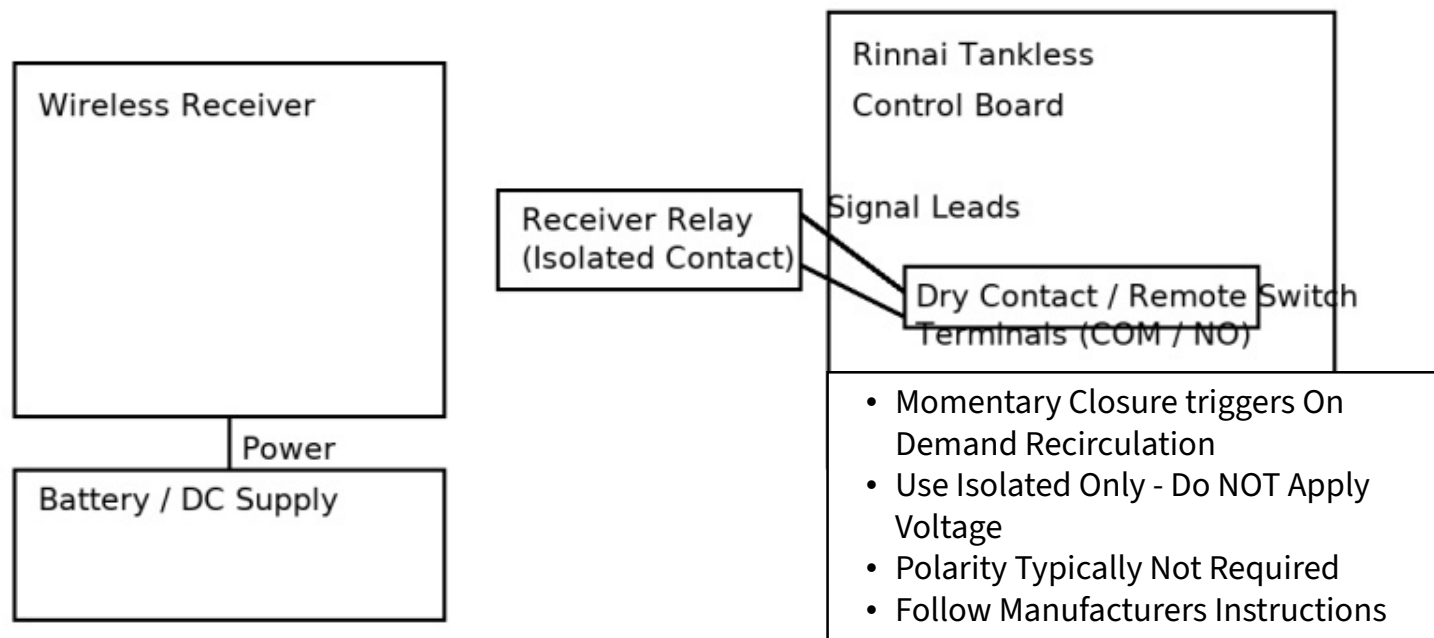
This booklet references official installation and service manuals from each tankless manufacturer including Rinnai, Navien, Noritz, Rheem, A. O. Smith, Bosch, Bradford White, and Takagi. Installers should always verify terminal connections with the current version of the manufacturer's manual.

Wiring Diagram on the Following Pages

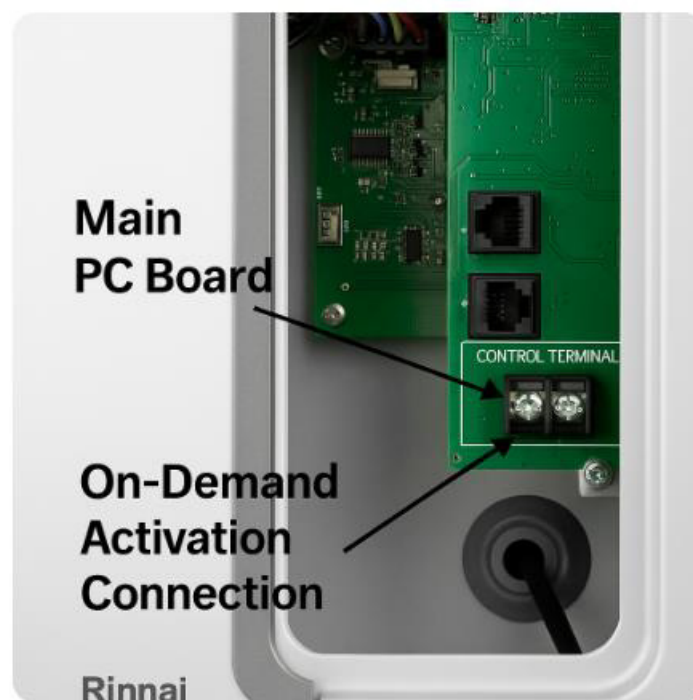
• Rinnai	>>>	• Page 4
• Navien	>>>	• Page 5
• Noritz	>>>	• Page 6
• Rheem	>>>	• Page 7
• A.O. Smith	>>>	• Page 8
• State	>>>	• Page 8
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Wiring Diagram *Continued*: Rinnai

Rinnai - Wireless Receiver to Dry-Contact Terminal



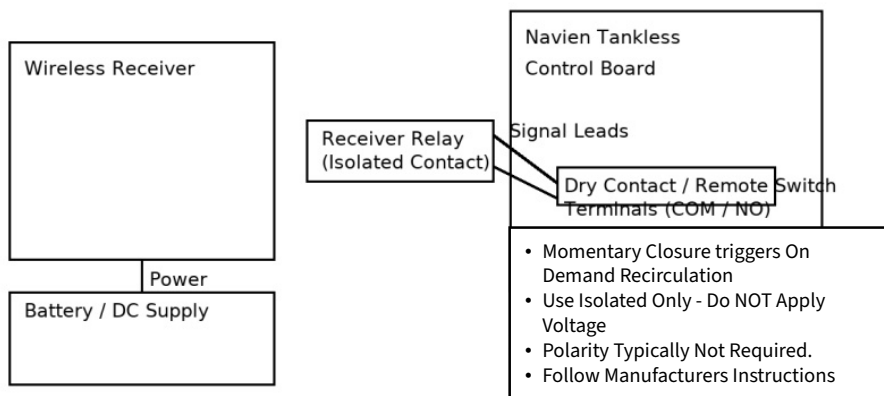
Terminal Photo



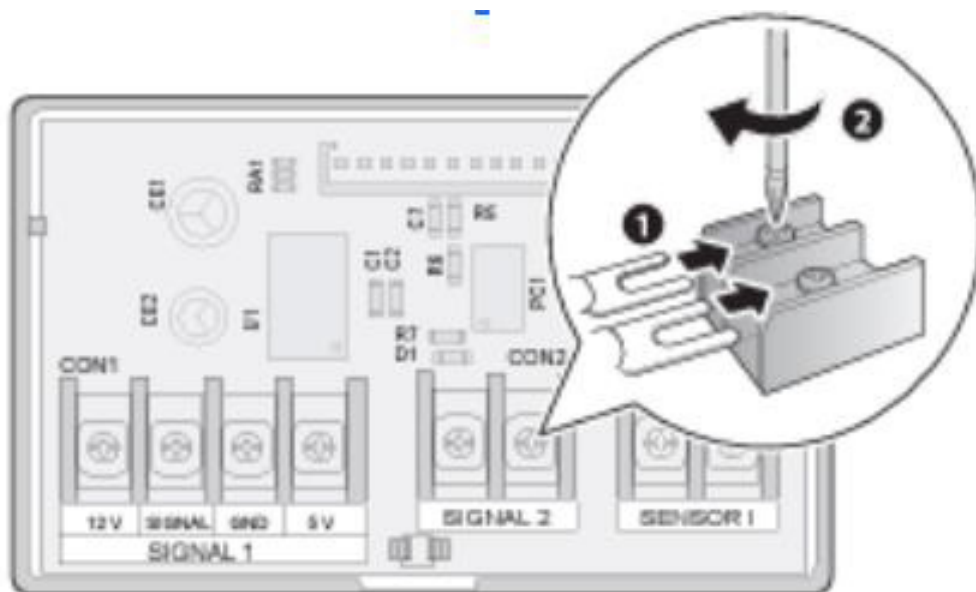
Terminal Location Notes: Low-voltage terminal block near the bottom right of the control area; often used with Control-R / push button kits.

Wiring Diagram *Continued*: Navian

Navian- Wireless Receiver to Dry-Contact Terminal



Terminal Photo



Note

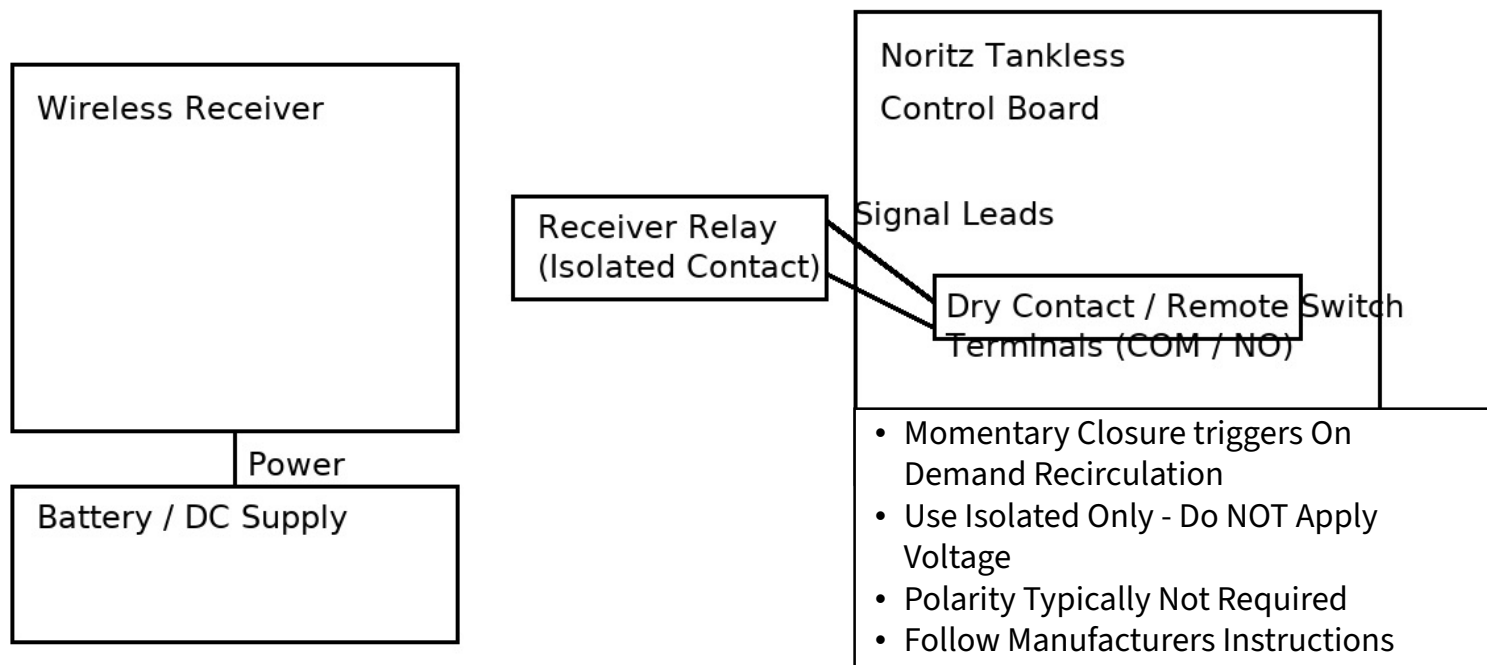
- Multiple wired switches may be connected to the same terminal contacts.
- Use spade connectors at the end of the cables to securely install the cables to the terminal contacts.

NPN/NHW700 Series ONLY

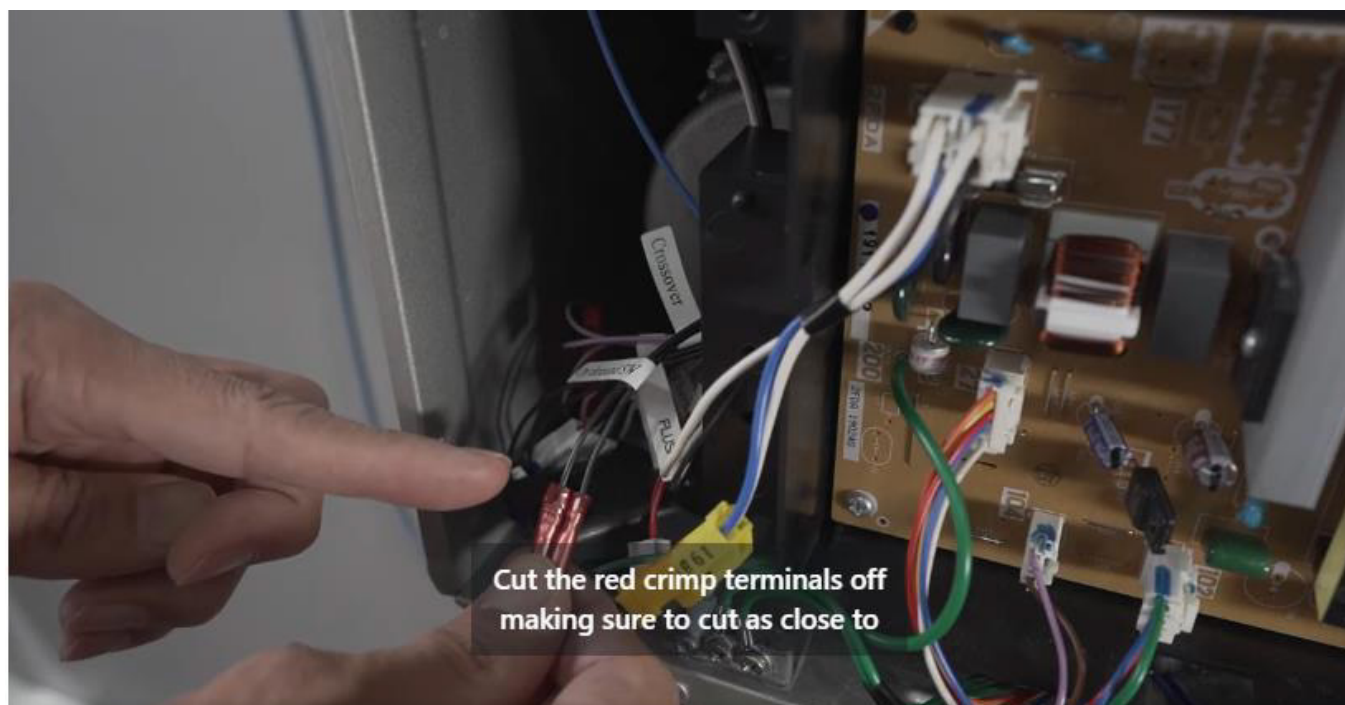
Terminal Location Notes: HotButton terminals on the main board; look for 'EXT' or 'REMOTE' switch labeling.

Wiring Diagram *Continued*: Noritz.

Noritz - Wireless Receiver to Dry-Contact Terminal



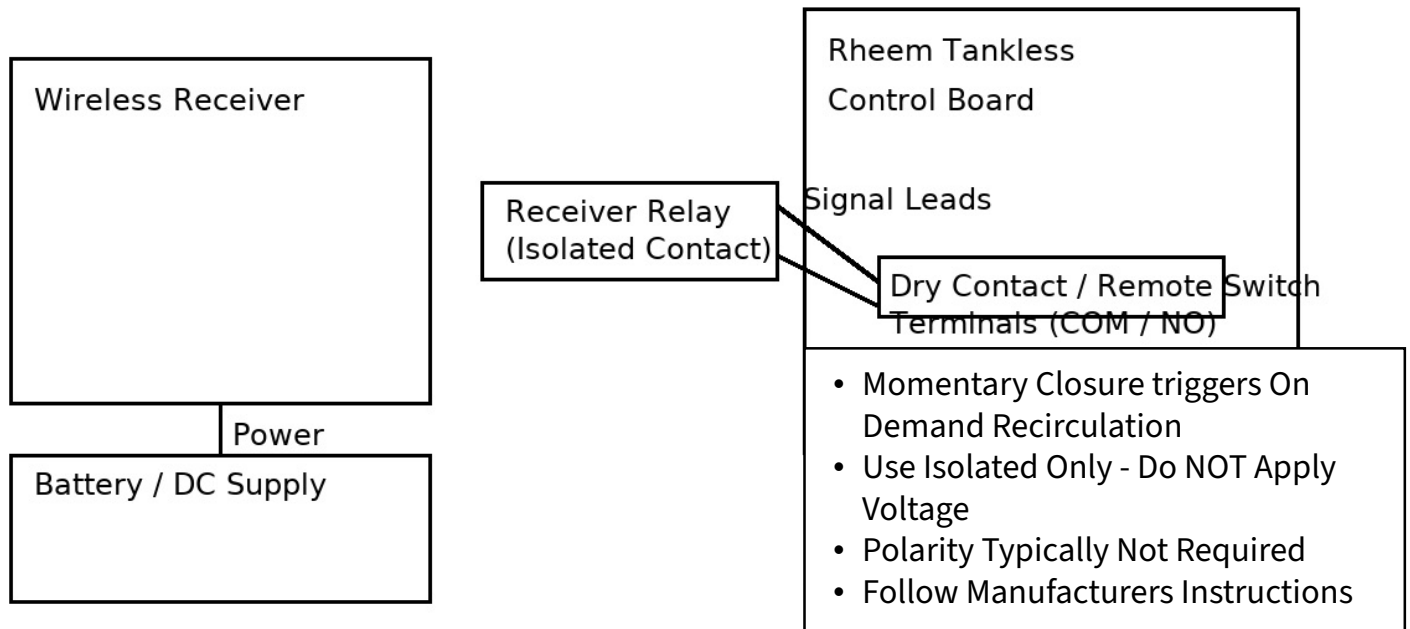
Terminal Photo



Terminal Location Notes: On-demand recirculation terminals on the I/O block; manuals allow multiple buttons in parallel.

Wiring Diagram *Continued*: Rheem.

Rheem- Wireless Receiver to Dry-Contact Terminal



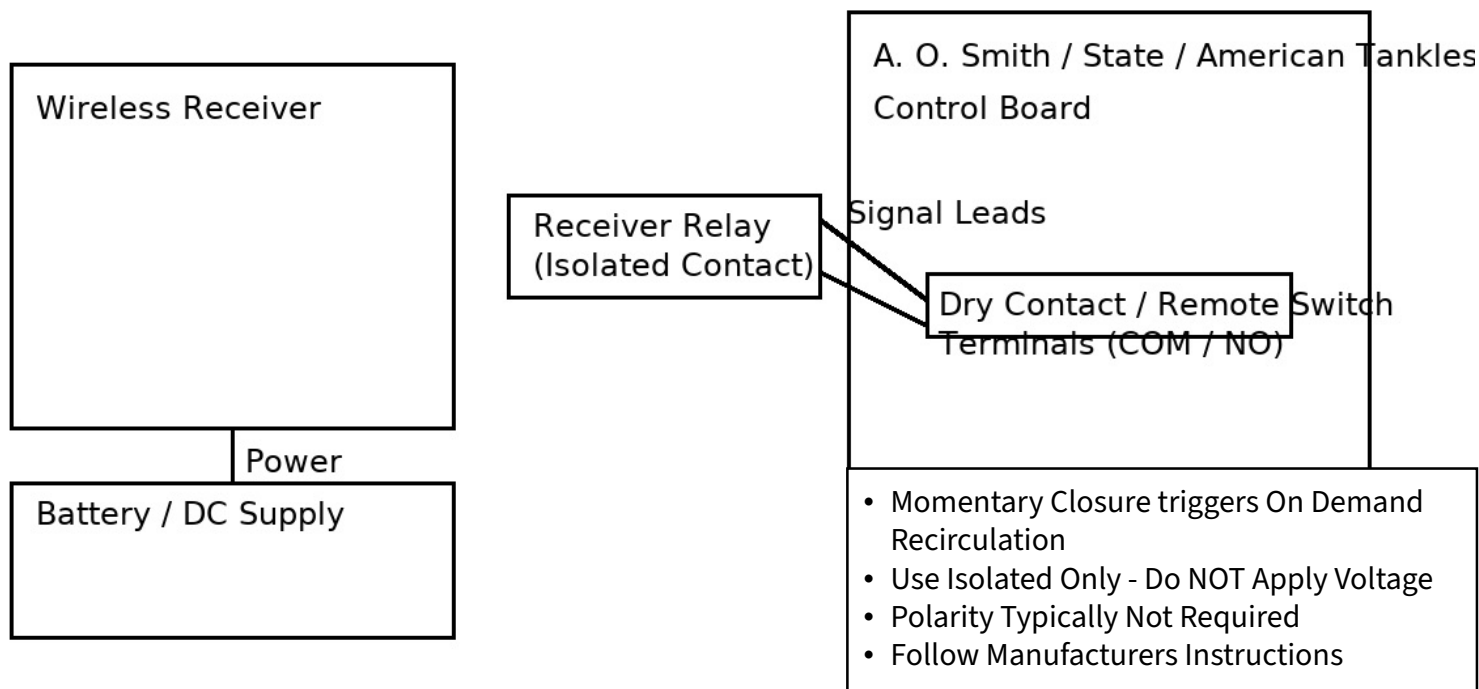
Terminal Photo



Terminal Location Notes: Service panel interior; look for accessory/demand recirc terminal block.

Wiring Diagram *Continued*: A.O. Smith | State | American

A.O. Smith | State | American- Wireless Receiver to Dry-Contact Terminal



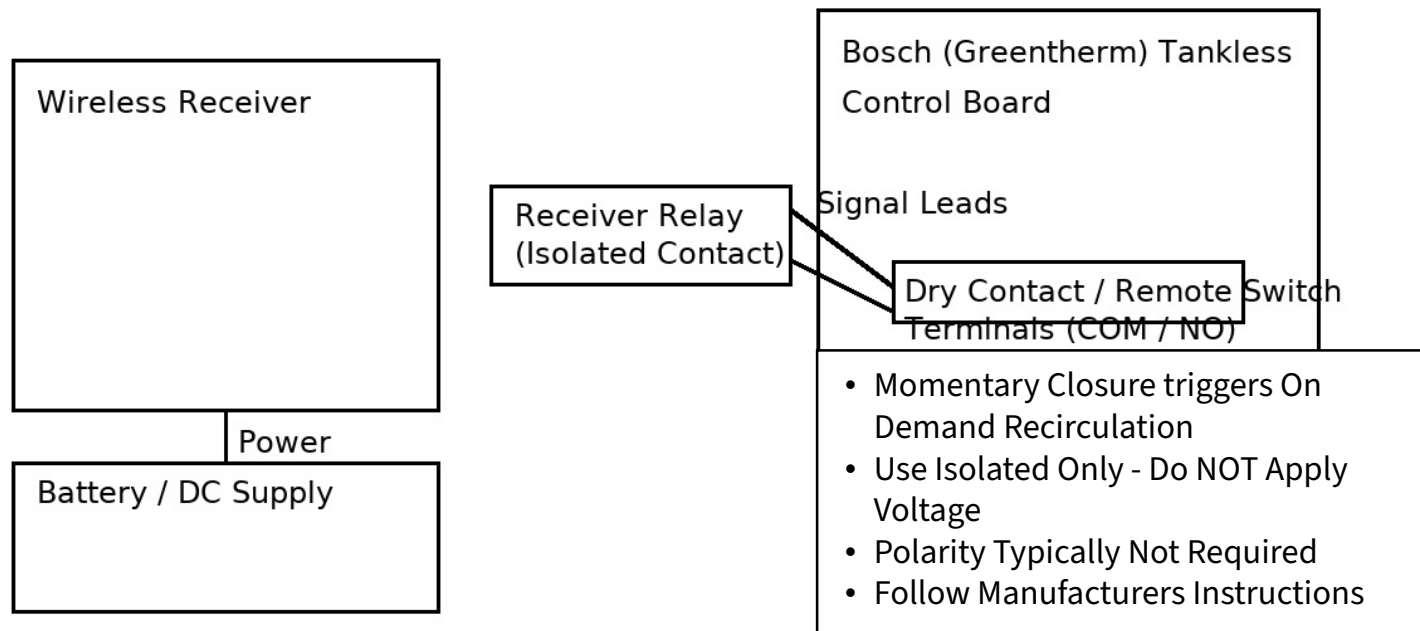
Terminal Photo



Terminal Location Notes: Dedicated 'Pump Connector' dry contact; labeled COM/NO or similar on the control board.

Wiring Diagram *Continued*: Bosch

Bosch (Greentherm)- Wireless Receiver to Dry-Contact Terminal



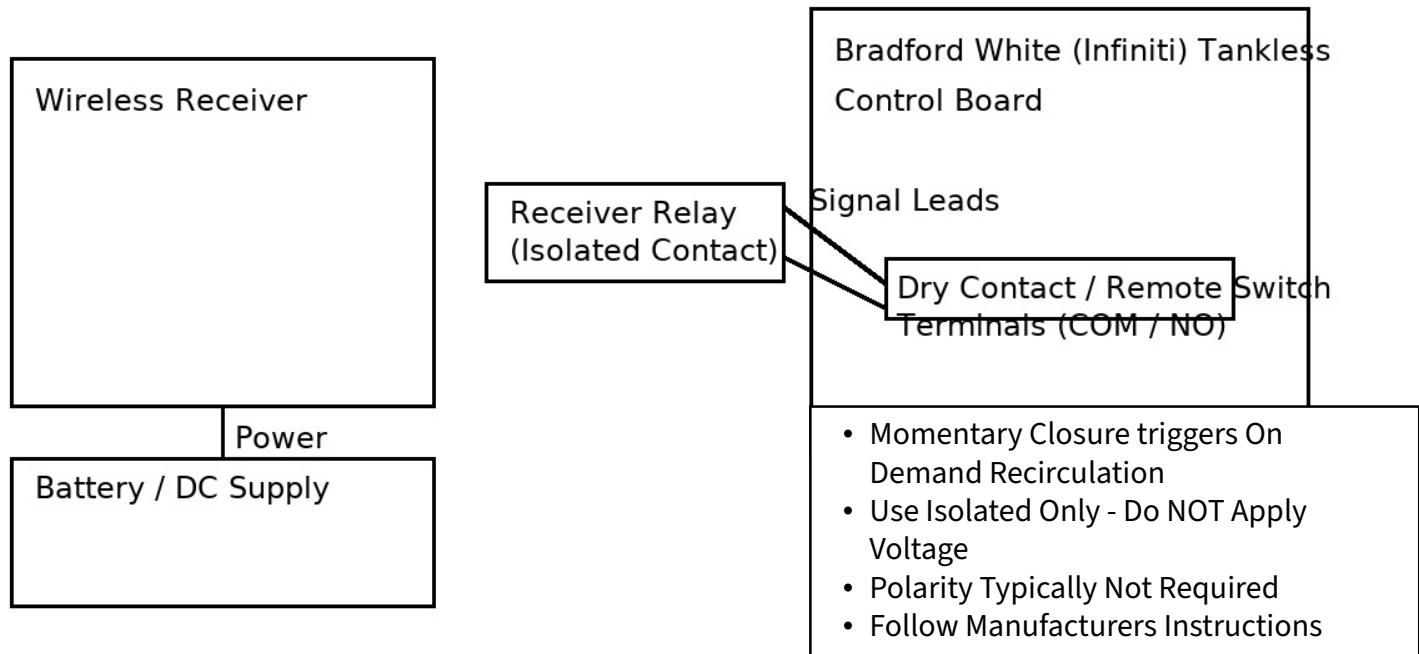
Terminal Photo



Terminal Location Notes: Applications board with low-voltage recirc control terminals; referenced in applications manual.

Wiring Diagram *Continued*: Bradford White

Bradford White (Infiniti)- Wireless Receiver to Dry-Contact Terminal



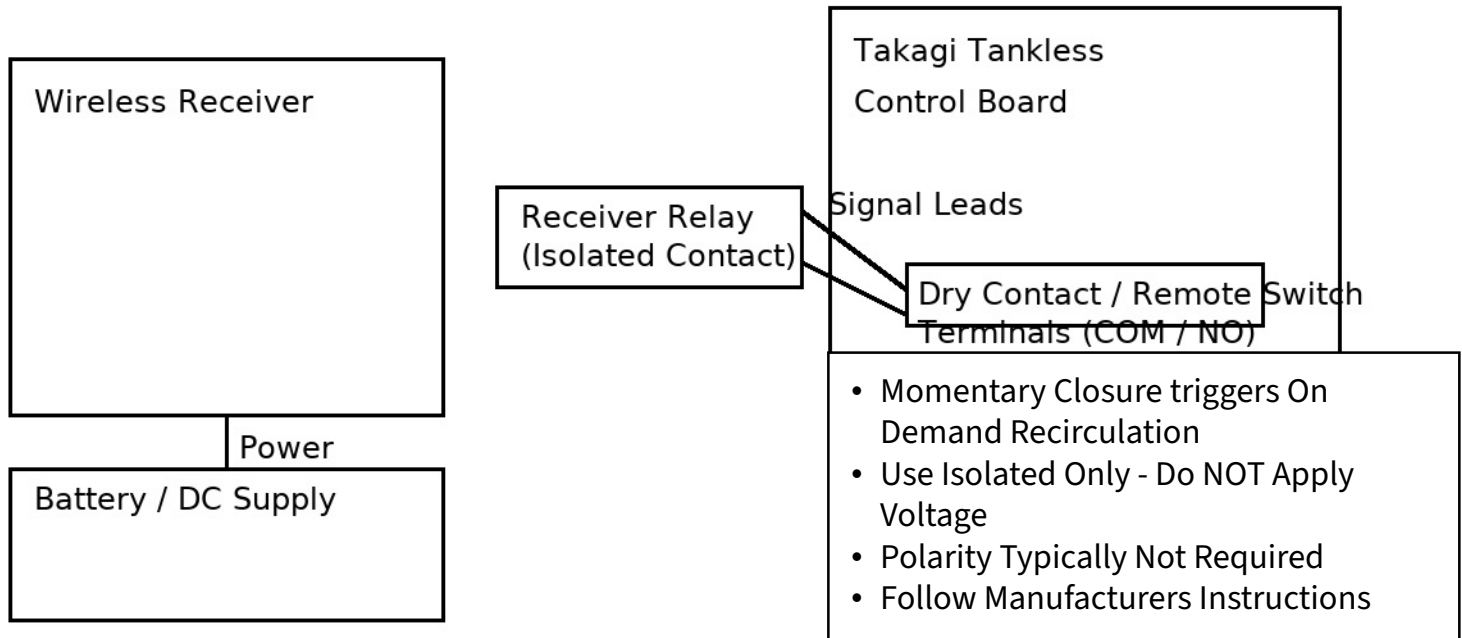
Terminal Photo



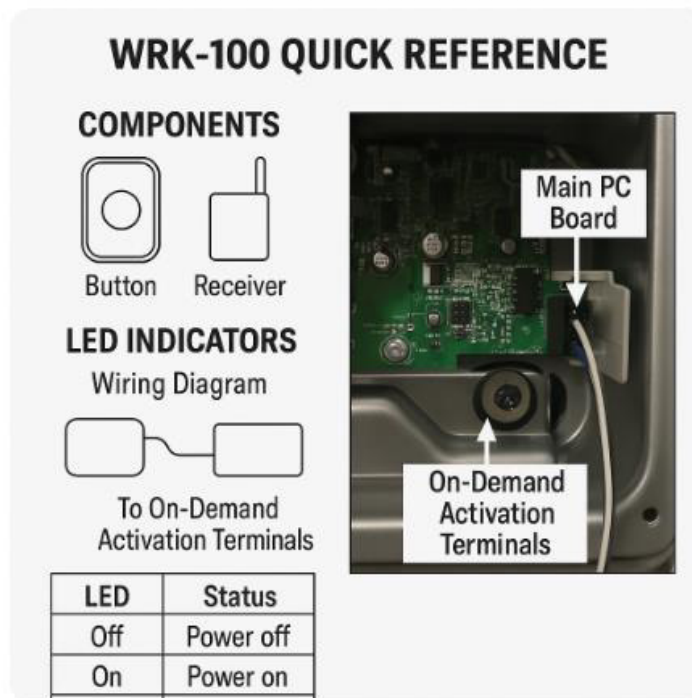
Terminal Location Notes: Low-voltage input block inside the front panel; refer to GR/K wiring diagrams.

Wiring Diagram *Continued*: Takagi.

Takagi- Wireless Receiver to Dry-Contact Terminal



Terminal Photo



Terminal Location Notes: Main control board low-voltage terminals; TK/TH manuals show remote switch landing points.