Installation Instructions

Part No. CRRNETPH001A00

SAFETY CONSIDERATIONS

Installation of this accessory can be hazardous due to system pressures, electrical components, and equipment location (such as a roof or elevated structure). Only trained, qualified installers and service technicians should install, start-up, and service this equipment.

When installing this accessory, observe precautions in the literature, labels attached to the equipment, and any other safety precautions that apply:

- Follow all safety codes
- Wear safety glasses and work gloves
- Use care in handling and installing this accessory

It is important to recognize safety information. This is the safety-alert symbol: ⚠. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

⚠ DANGER
ELECTRICAL SHOCK HAZARD
Failure to follow this warning will result in personal injury or death.
Before performing service or maintenance operations on unit, turn off main power switch to unit and install lock(s) and lockout tag(s). Ensure electrical service to rooftop unit agrees with voltage and amperage listed on the unit rating plate. Unit may have more than one power switch.

INTRODUCTION

The Applied Rooftop units control box is not equipped with the RNET harness. This installation guide outlines the steps for properly installing the new RNET harness.

PRE-INSTALLATION

Remove accessory packaging and inspect shipment for damage. See Table 1 for unit usage. If any damage is found, file a claim with the shipping agent immediately. If any item is missing or any part does not assemble properly, notify your Carrier distributor. Table 2 lists the accessory package contents.

Table 1 — RNET Harness Usage

UNIT	SIZE
48/50K	20-60
48/50V	28-98

Table 2 — Accessory Kit Contents

DESCRIPTION	QUANTITY
Bracket (48VA002301)	1
RNET Harness (48VV007156)	1
Screw, M3 (AC54MF031)	2
Screw (Tri-lobe) AL04AU166	2
Power Supply Transformer (HT65AZ033)	1
Connector (HY89WG011)	1

⚠ WARNING
To avoid the possibility of electrical shock, open all disconnects before installing or servicing this accessory.

INSTALLATION

The RNET harness kit is to be installed in 48/50K and 48/50V unit's control box. See Fig. 1 for control box and harness kit part number locations.

1. Shut off unit power supply.
2. Open the hinged control box access door and secure.
3. Secure mounting bracket (48VA002301) and power supply transformer (HT65AZ033) inside control panel using screws included with the kit. See Fig. 1 for mounting bracket and transformer location.
   NOTE: Holes in the panel are pre-drilled.
4. Remove the top and bottom screws from the panel before accessing terminals on the SmartVu controller. Gently pull the controller from the enclosure panel to access terminal J8.
5. Connect the PL1 from harness 48VV007156 to terminal J8 on the bottom of the SmartVu controller. After establishing the connection to the terminal, return the controller to its enclosure and secure it by reusing the top and bottom screws. Connect the four leads labeled INPUT and OUTPUT from the same harness to the power supply transformer (HT65AZ033) as shown in Fig. 1-4.
6. Connect leads from harness 48VV007156 labeled XP-PWR-V- and XP-PWR-V+ to the 24V transformer. See Fig. 5 for wiring.
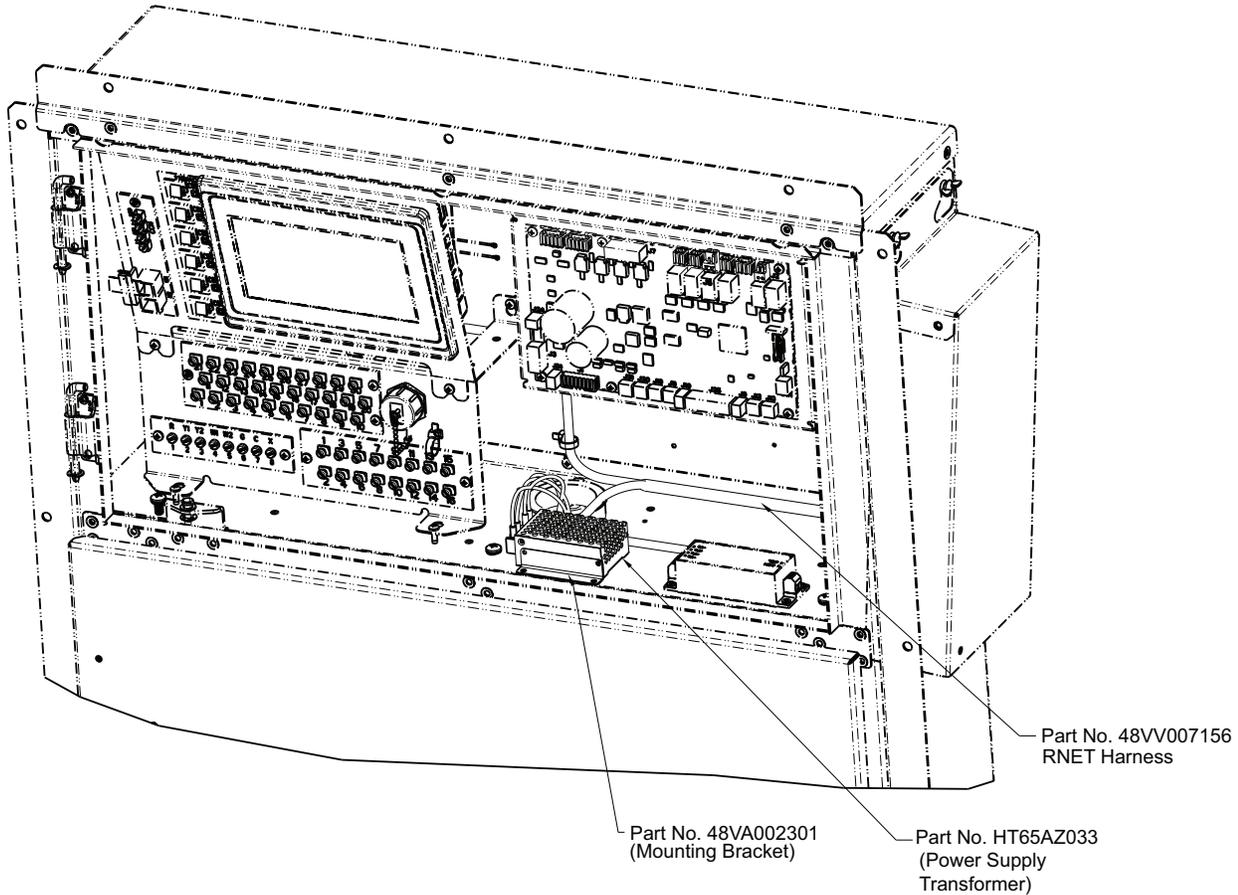
7. Attach the spare plug (HY89WG011) from the kit to end of harness on PL2, which can now be used to connect field installed sensors. See Fig. 1-4 for accessory kit, harness connectors, harness cable, and wiring.

8. Restore power to the unit.
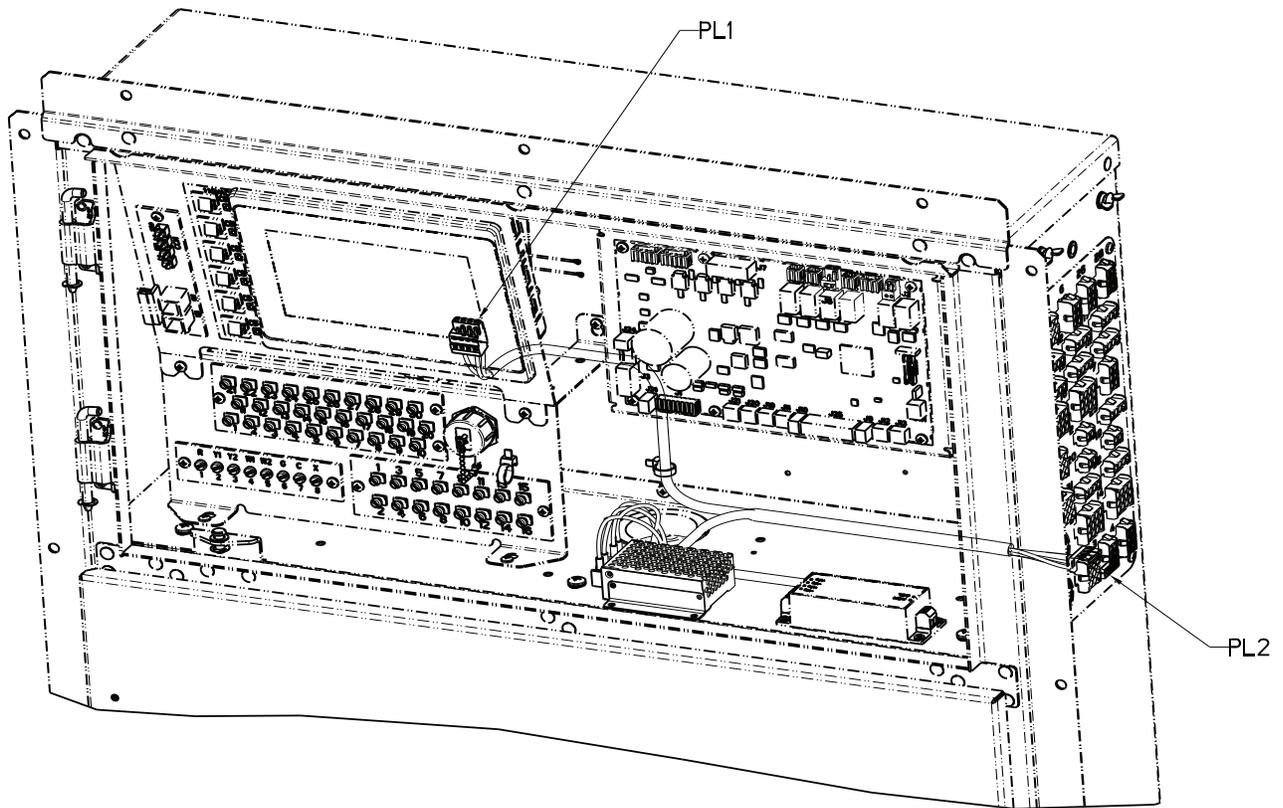
Rnet Configuration

In 48/50V and 48/50K, the Rnet can consist of up to 5 ZS sensors and one Equipment Touch wired in a daisy-chain configuration. See Fig. 6 for sample wiring of configuration.

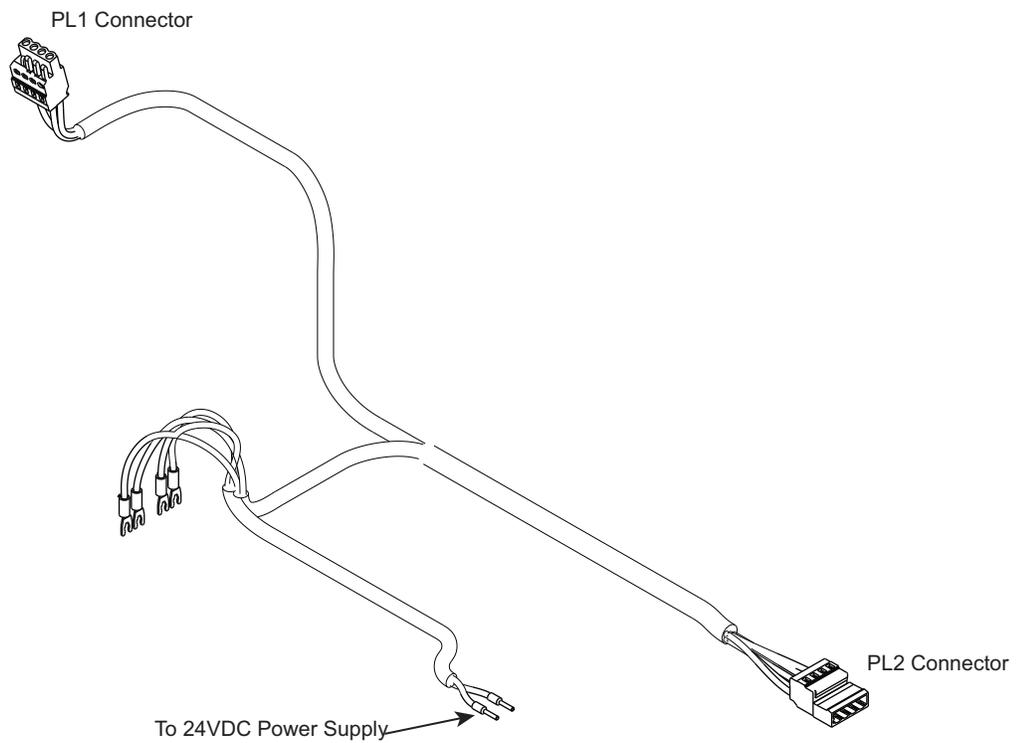NOTE: You cannot have SPT sensors and ZS sensors on the same Rnet.

NOTE: For more detailed information, please refer to ZS Sensor and Equipment Touch Installation Guide.

Part No. 48VV007156
RNET Harness

Part No. 48VA002301
(Mounting Bracket)

Part No. HT65AZ033
(Power Supply
Transformer)

Fig. 1 — RNET Harness Accessory Kit (SmartVu Control Box)

Fig. 2 — RNET Harness Connectors

PL1 Connector

PL2 Connector

To 24VDC Power Supply

Fig. 3 — RNET Harness Cable

ACCY KIT CRRNETPH001A00

PIC6-J8

PL1
HY89WG011
231-304

1 — BLK
2
3 — GRN
4 — WHT

RED — 1
2
3
GRN — 4

PL2
HY89WG024
231-634

1
2
3
4

PL2
HY89WG011
231-304

BLK
RED

V- V+

1 2 3 4 5

SD-15
(HT65AZ033)

Fig. 4 — Wiring Diagram

Leads labeled XP-PWR
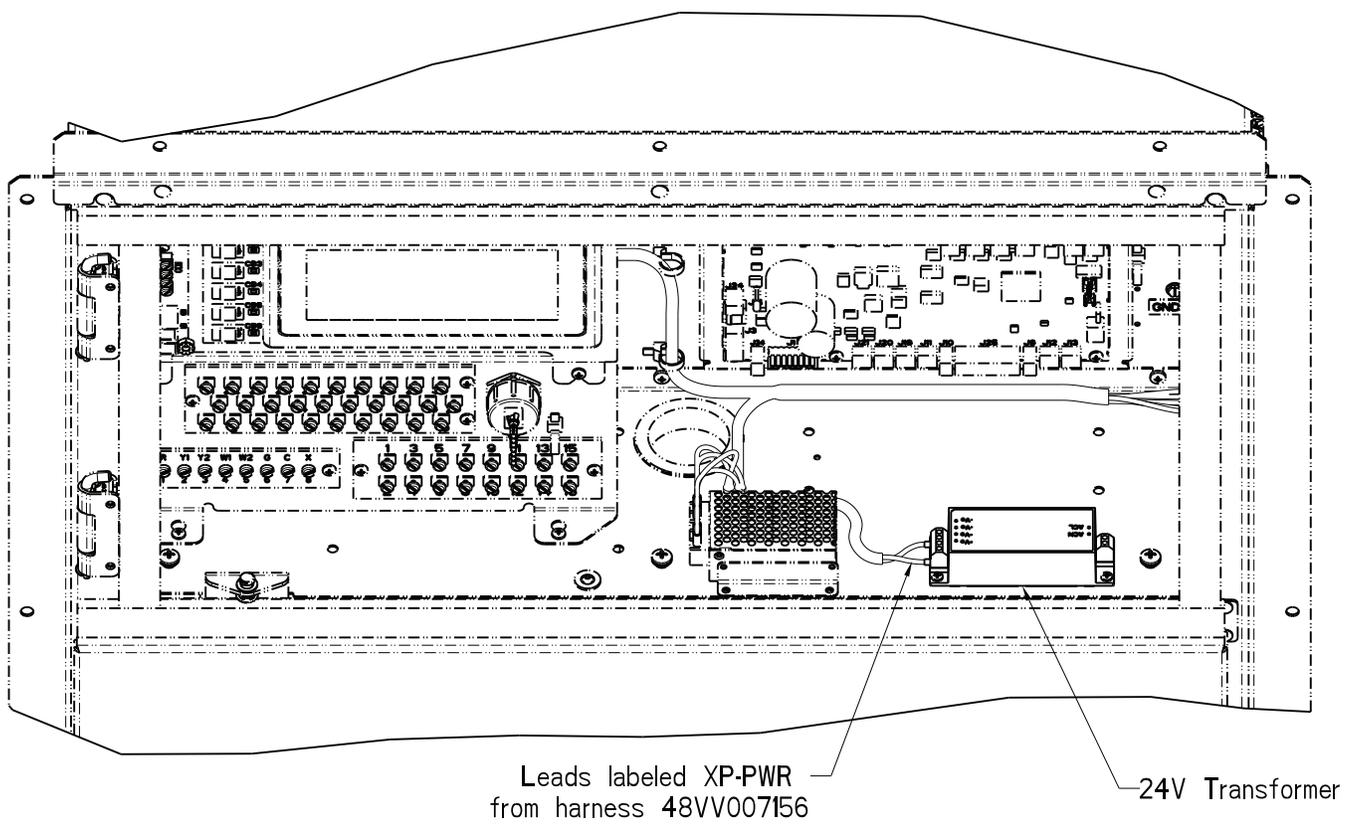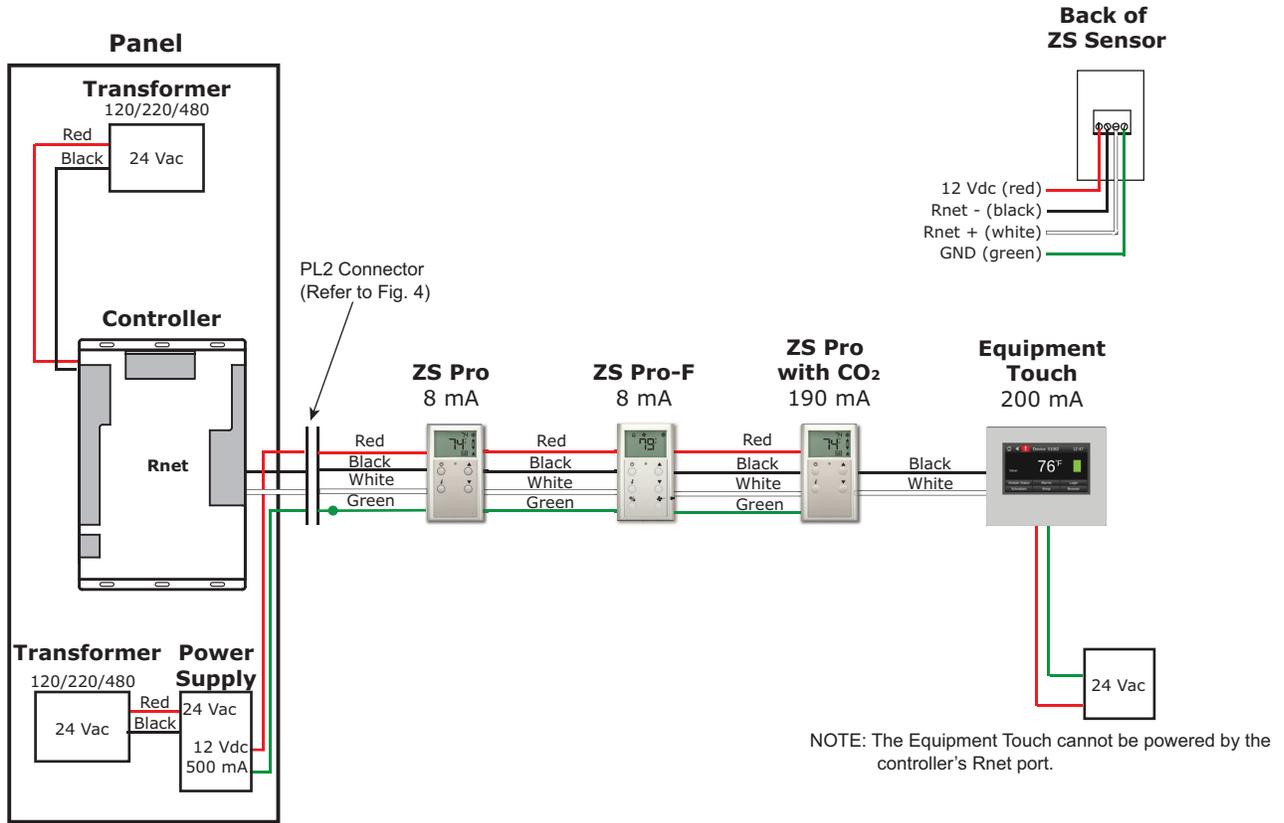from harness 48VV007156

24V Transformer

Fig. 5 — Connecting RNET Harness to 24V Output Transformer

Sample wiring diagram with external power supply:

Fig. 6 — Sample Wiring Diagram with ZS Sensor and Equipment Touch

NOTE: The Equipment Touch cannot be powered by the controller's Rnet port.

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