

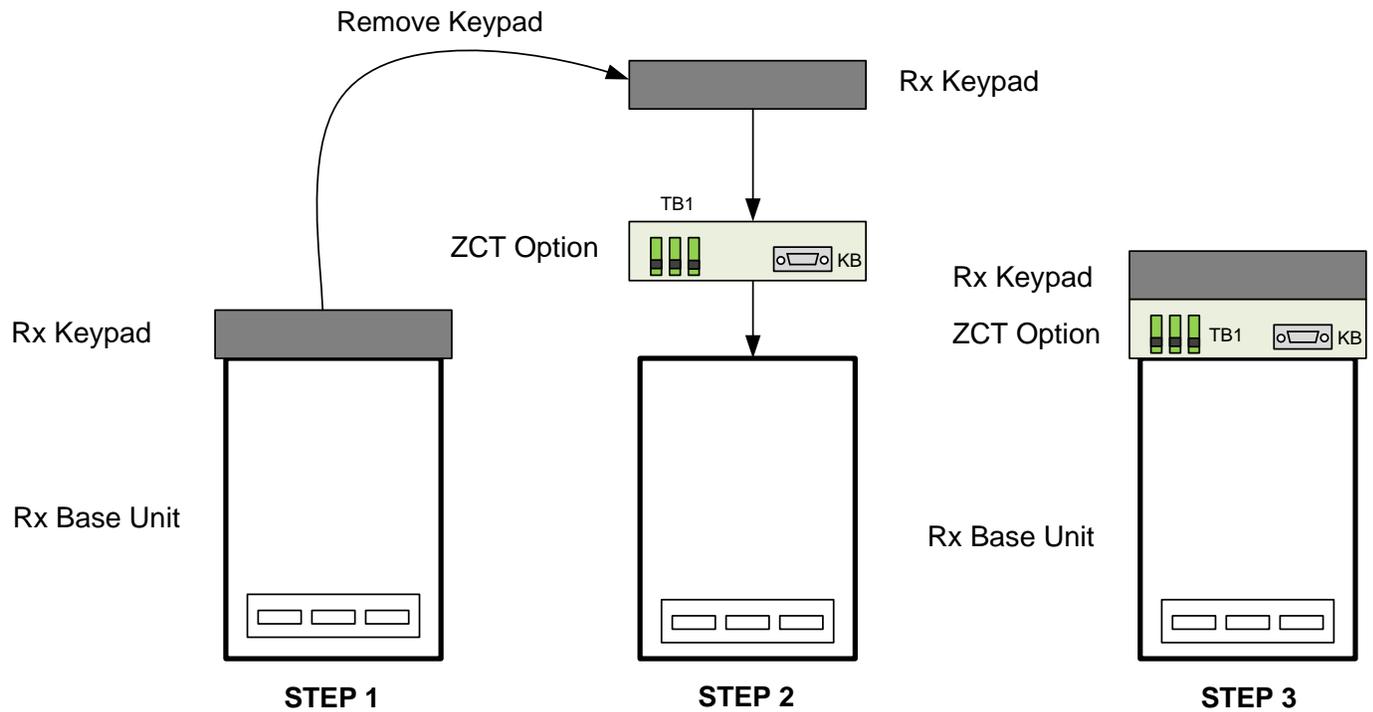
Rx Zero Sequence Ground Fault CT Option

The Rx ZCT option allows users to connect a Zero Sequence Ct to the Rx without modification of the Rx unit itself.

Installation:

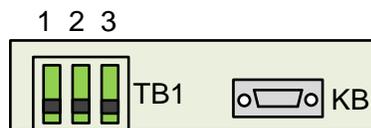
Before installing the ZCT option make sure power is turned off to the Rx relay.

The ZCT unit snaps onto the top of Rx unit. The Keypad fits on top of ZCT option or can be connected via a DB9 extension cable. The ZCT option extends beyond the right side of the Rx and has a second KB connector on the side to connect to the Keyboard.



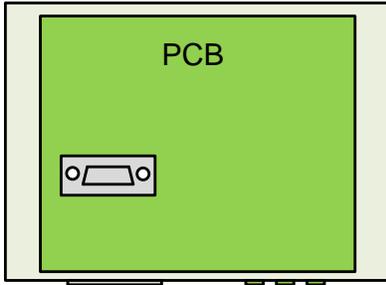
ZCT Option Connection:

Side: TB1: 3 position Terminal Block to connect the GF CT.

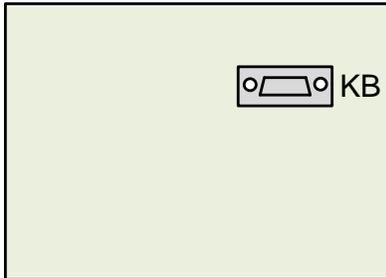


- CT selection: - TB1 pin 1 & 3 > 50:0.025 CT
- TB1 pin 2 & 3 > 50:0.050 CT

Bottom Side: DB-9 Male Connector to Rx



Top Side: DB-9 Female Connector to Keyboard



Note: Total length of the DB9 cable should not exceed 6ft.

ZCT Related Rx Parameters:

| Fn # | Group | Function Description | Adjustment / Display Range | Setting Increments | Factory Setting | Setting | Setting |
|------|-------|---------------------------------|--------------------------------------|--------------------|-----------------|---------|---------|
| F020 | | Ground Fault Current Trip Value | 0, 5 – 90% of CT Value [0=Disabled] | 1 (%) | 0 | | |
| F021 | | Ground Fault Current Trip Delay | 1 – 60 seconds | 1 | 2 sec. | | |
| F114 | | Ground Fault Source | 0 = Residual 1 = Zero Sequence CT | 1 | 0 | | |

Specifications:

Supported CT's: Model 170 50:0.05 diameter 4.25"
 Model 140 50:0.025 diameter 8.13"

- GF Current Trip Range: 5% to 90% of GF CT value
- GF Current Trip Delay: 0.1 sec to 60 sec.
- Accuracy: +/-2%
- Rx Display: Average GF Current: 00.0A to 50.0A
- Ambient: 0 to 50°C, 0 to 95% relative humidity, elevation up to 10,000 ft (3000m) w/o de-rating.

Technical Information:

- Power is derived from the Rx.
- Communication with the Rx via I2C.
- The ZCT module is an I2C slave to the Rx.
- Polling by the CPU: every 100msec