MOUNTING POSITION - The CLR-2-S2 may be mounted in any position.

INPUT - The CLR-2-S2 is powered by a +/-24VDC (max) current loop from a PTR-1-2 Pulse Transmitting Relay. No other power supply to the CLR-2-S2 is necessary. Connect the CLR-2-S2's "RING" terminal to the "RING" output terminal wire of the PTR-1-S2. Connect the "TIP" terminal to the "TIP" output terminal wire of the PTR-1-S2. The current loop will alternately switch the relay coils on the CLR-2-S2 each time the Yin or Zin terminals are connected to the Kin terminal of the meter. A connection (closure) on the K-Y input of the PTR-1-S2 will result in a closure of the K-Y contacts on the CLR-2-S2's outputs. A K-Z closure will result in a closure of the K-Z contacts on the CLR-2-S2. MOV transient protection on the input is provided internally. Connect the GND terminal to electrical system ground.

FUSES - The fuses are type 3AG and may be up to 1/4 Amp in size. Two 1/4 Amp fuses (F1 & F2) are supplied standard with the unit unless otherwise specified.

OUTPUTS - Two 3-wire isolated outputs are provided on the CLR-2-S2, with output terminals K1, Y1 & Z1 and K2, Y2, & Z2. MOV transient voltage suppression for the contacts of the solid-state relays is provided internally.
Operation: The PTR-1 contains a +/-15 to 25VDC current loop for long distance pulse transmission and uses a dedicated pair of wires. As the PTR-1’s KYZ input alternates from one closure to another, the current loop polarity reverses causing all output relays to switch in the CLR-x Receiving Relay. Maximum distance of transmission decreases with the increased number of outputs on the receiving relay. Maximum distance will also increase as wire size increases.