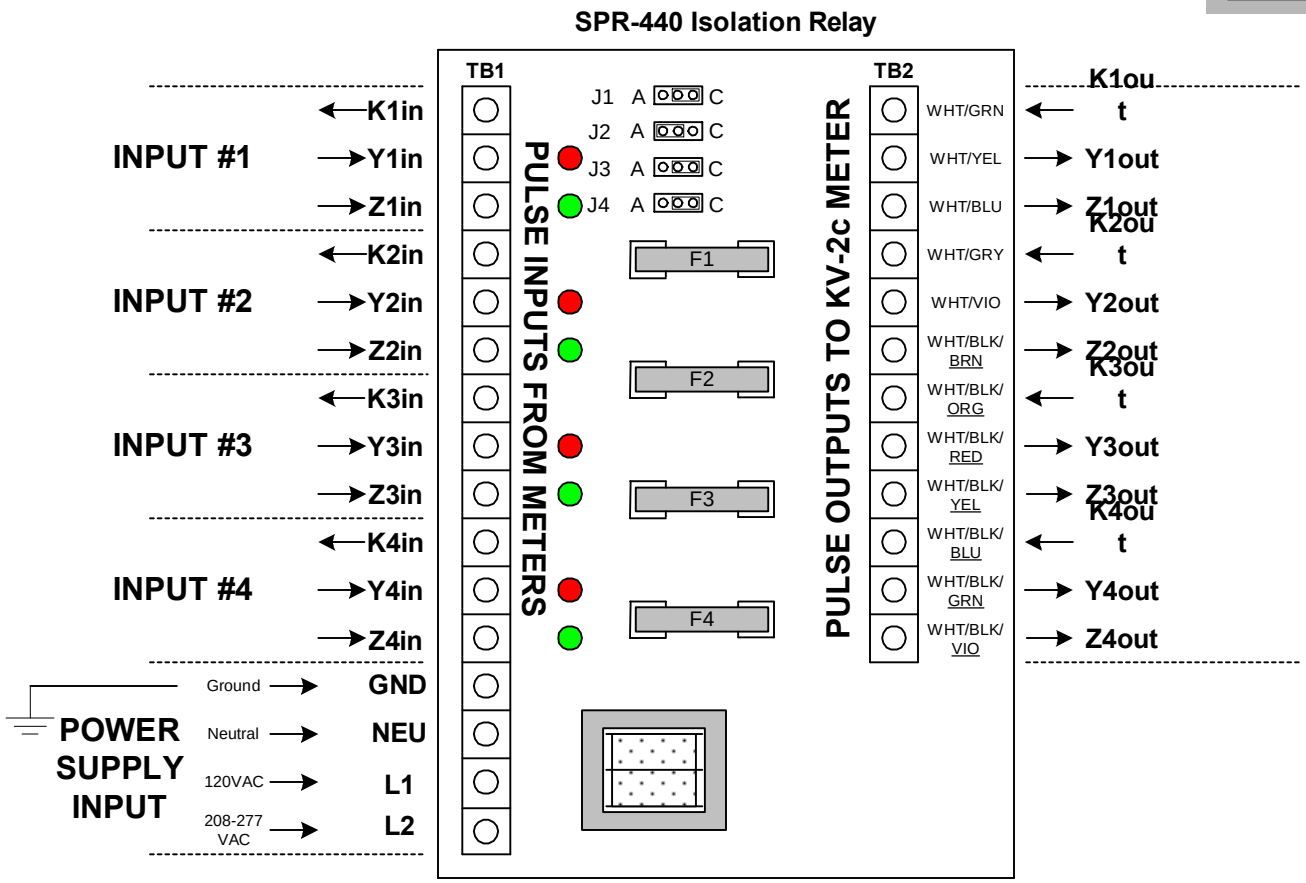
INSTRUCTION SHEET
SPR-440 ISOLATION RELAY



MOUNTING POSITION - The SPR-440 may be mounted in any position.

POWER INPUT - The SPR-440 can be powered by 120VAC or 208 to 277VAC. Connect the Neutral lead to the NEU terminal. For 120VAC operation, connect the **L1** terminal to the 120VAC "Hot" lead. For 277VAC operation, connect the **L2** terminal to the 277VAC "Hot" lead. **Do not use both L1 and L2.** If Neutral does not exist at the meter, (or at the location that the SPR-440 is mounted, connect both NEU and GND to Ground.

GROUND - The GND terminal on the left side of the board (Terminal #4) is the electrical system ground. Connect this terminal to the electrical system ground.

KYZ INPUTS TO SPR-440 - The SPR-440 has four field-selectable 2-wire (Form A) or 3-wire (Form C) inputs (J1 through J4) which receive pulses on TB1 from four GE KV-2c meters' pulse outputs. Set Jumpers J1 through J4 for the correct input configuration as defined by the meter's output configuration. The SPR-440's supplies a +13VDC wetting voltage from the Y and Z terminals to "wet" the meter's output contacts. As the pulse output of the meter toggles, the Y and Z inputs are alternately switched to the K terminal, thus activating the SPR-440's isolated outputs. When the Y input of each channel receives a pulse from the meter, the corresponding Red LED will light. When the Z input receives a pulse the channel's Green LED will light. Input pulses from the meter are "echoed" on the corresponding output of the SPR-440.

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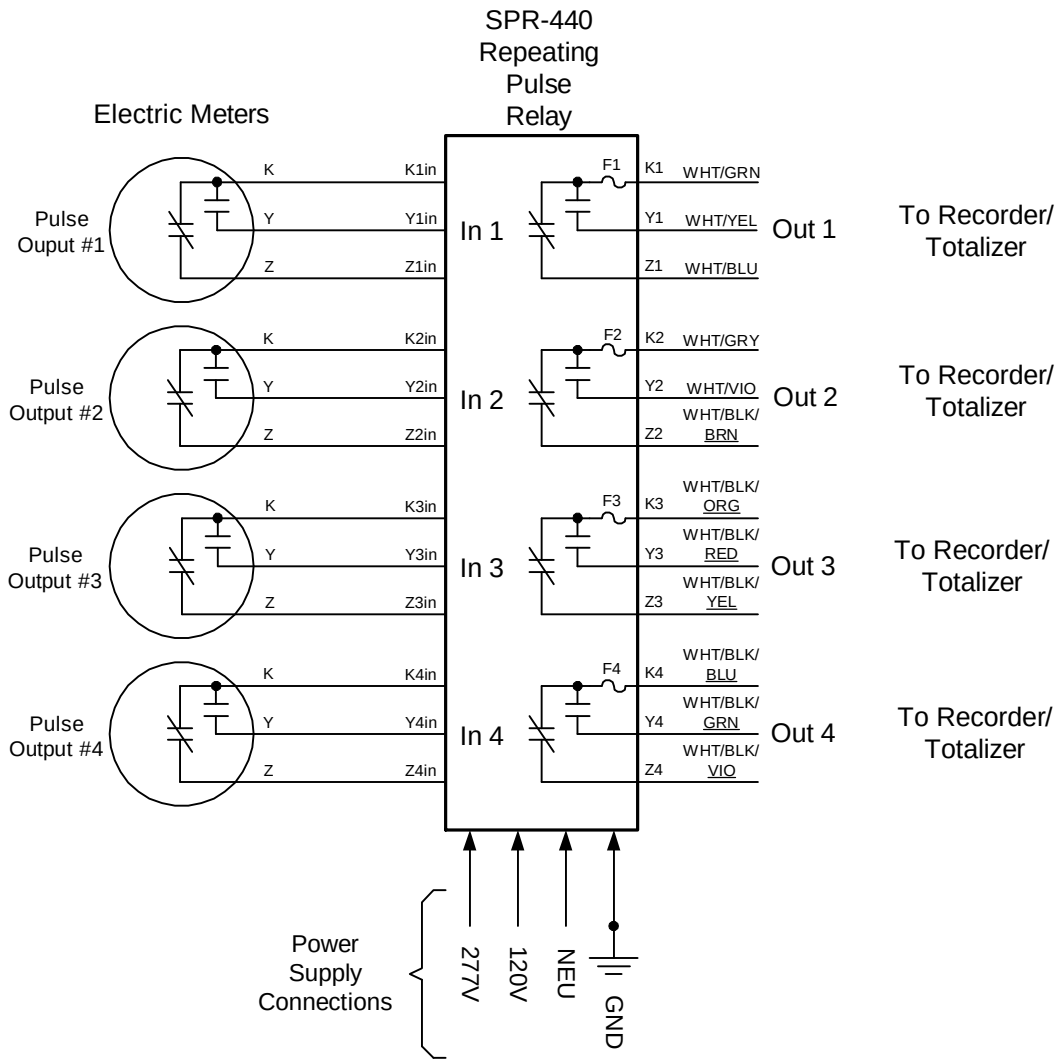
RELAY OUTPUTS - Each of the SPR-440's four inputs has a 3-wire isolated, dry-contact solid state output for repeating the pulses received from the KV-2c meter. Outputs are K1,Y1, & Z1 for channel #1, K2,Y2, & Z2 for channel #2, etc. The output relay contacts are "dry" (no voltage present). A wetting voltage must be supplied from the destination device to each output's "K" terminal. Arc suppression for the contacts is provided internally by metal oxide varistor (MOV) surge suppression devices. Outputs are rated at 250VAC/VDC @ .1 Amp. Maximum on-state power dissipation is 800mW.

FUSES - The fuses are type 3AG or AGC and may be up to 1/10th Amp in size. Four 1/10 Amp fuses (F1-F4) are supplied standard with the unit unless otherwise specified. Care should be taken to insure that the input burden of the destination device will not exceed the rating of the fuse.

SPR-440 Wiring Diagram



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