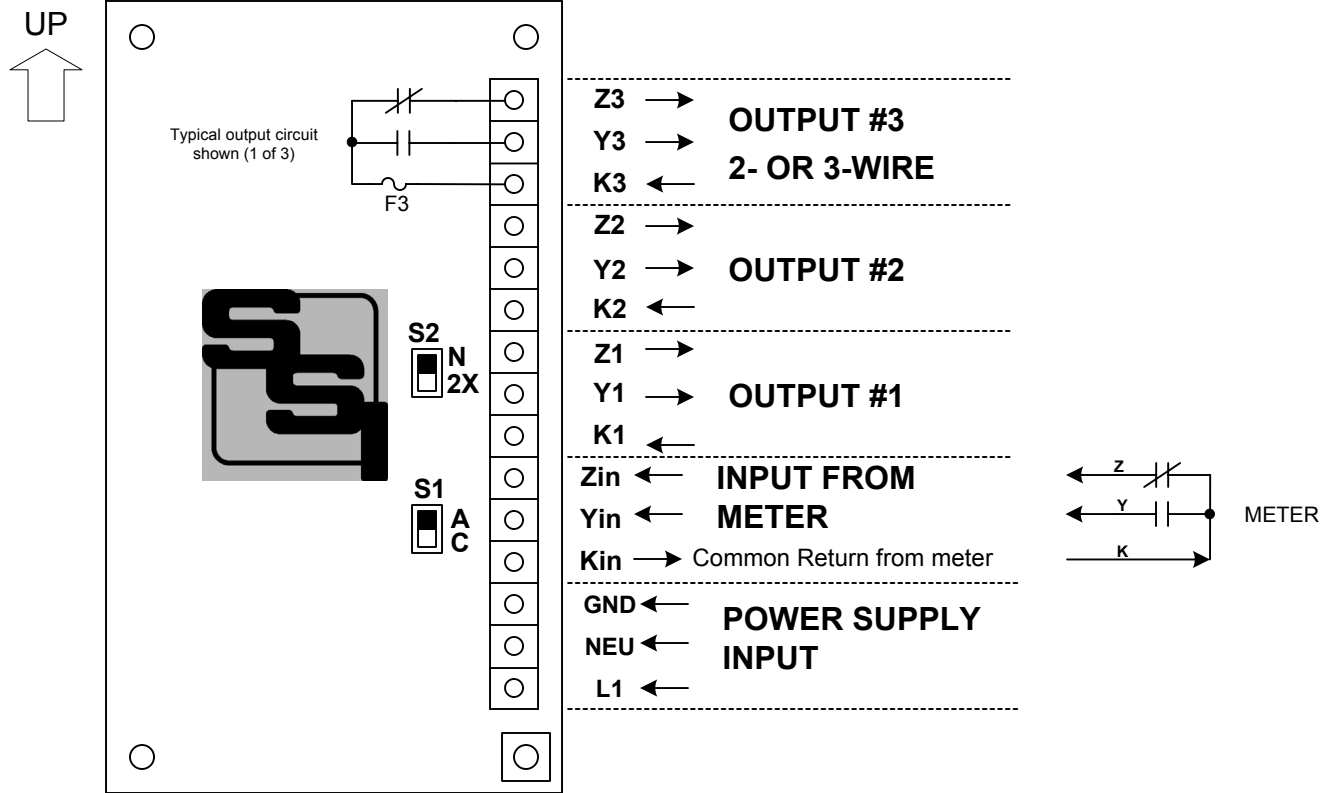


# INSTRUCTION SHEET

## RPR-903 PULSE ISOLATION RELAY



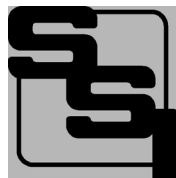
**MOUNTING POSITION** - Because the RPR-903 contains mercury-wetted relays, it must be mounted in a vertical position to operate correctly. The RPR-903 must be mounted in a suitable enclosure for the application.

**POWER INPUT** - Connect a continuous power supply voltage of between 80 and 140 VAC, connecting the hot lead to the L1 terminal and the neutral lead to the NEU terminal. Connect the GND lead to electrical system ground. The Lower Right-hand corner mounting hole (with the square pad) is also connected to ground.

**METER CONNECTIONS** - The RPR-903's "Kin", "Yin" and "Zin" input terminals should be connected to the meter's "K", "Y" and "Z" terminals: "Kin" to "K", "Yin" to "Y", and "Zin" to "Z". The RPR-903's "Kin" terminal provides the common system return (ground) to the meter's "K" terminal. The "Yin" and "Zin" terminals are "pulled up" to the +13VDC wetting voltage. For 2-wire metering system, connect only the "Kin" and "Yin" terminals to the meter. Set S1 to "A" (up) if using a 2-Wire input or to "C" (down) for a 3-Wire input.

**FUSES** - The fuses are type 3AG and may be up to 2 Amps in size. Three 1/2 Amp fuses (F1, F2 and F3) are supplied standard with the unit unless otherwise specified. Fuses are rated for 250VAC/VDC max.

**OUTPUTS** - Outputs 1 & 2 are fixed 3-wire outputs. Output #3 may be operated as either a 2-wire (Form A) or 3-wire (Form C) output. For 3-wire("NORMAL") operation, set switch S2 to the "N" (up) position. For the 2-wire output mode, set S2 to the "2X" (down) position and use the "K3" & "Y3" terminals. In the 2-wire mode("Pulse Doubling"), a 100mS fixed-width output pulse occurs for each change of input state. Arc suppression for the contacts of each mercury-wetted relay is provided internally. The RPR-903's outputs are rated at 2 amps at 250VAC/VDC. Contact factory for information on higher voltage ratings.



## SOLID STATE INSTRUMENTS

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