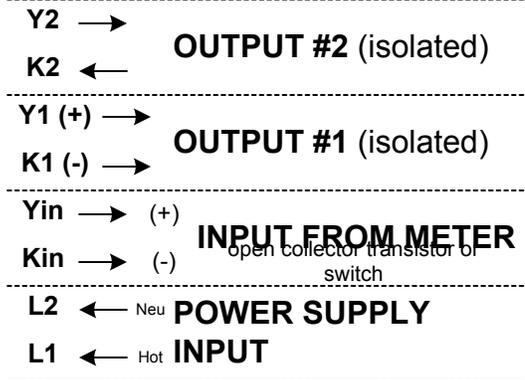
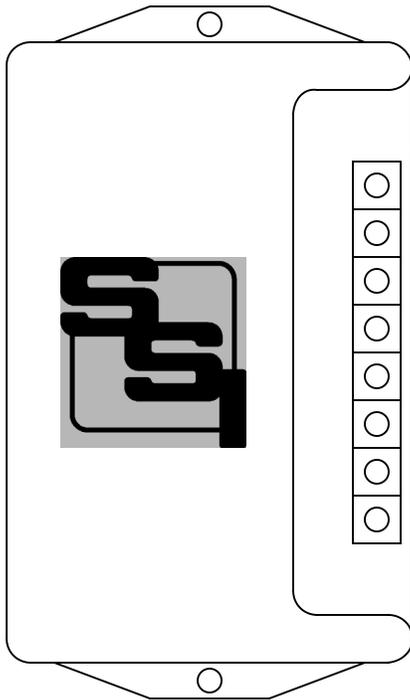


INSTRUCTION SHEET

RTR-2A PULSE ISOLATION RELAY

For Badger Record-All "RTR" Water Meters, Hersey ER-2 Water Meters and other Electric, Water & Gas Meters with open collector transistor outputs.



MOUNTING POSITION - Because the RTR-2A contains mercury-wetted relays, it must be mounted in a vertical position to operate correctly.

POWER INPUT - The RTR-2A should be powered by an AC voltage of between 90 and 300 volts. The hot lead should be connected to the L1 terminal and the neutral to the L2 terminal.

METER CONNECTIONS - The RTR-2A's input is suitable for an open-collector transistor type or non-polarized electromechanical switch or relay. "Kin" and "Yin" terminals should be connected to the water or gas meter's "-" & "+" terminals. The "+" terminal to the "Yin" terminal and the "-" terminal to the "Kin" terminal. The RTR-2A's "Yin" terminal is "pulled up" to +8VDC to +13VDC. The input is active when the "Yin" terminal is shorted or switched to the "Kin" terminal for **at least 5 milliseconds**.

FUSES - The fuses are type 3AG and may be up to 2 Amps in size. Two 1/2 Amp fuses are supplied standard with the unit unless otherwise specified.

OUTPUTS - Outputs are dry-contact non-polarized Form "A" configuration for use with customer-owned energy management equipment or other equipment configured to receive pulses from dry-contact outputs. Arc suppression for the contacts of the mercury-wetted relay is provided internally. Upon a proper length input pulse, the each outputs will close for approximately 100mS.

SOLID STATE INSTRUMENTS

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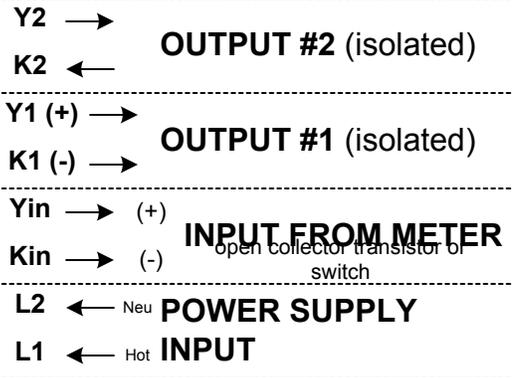
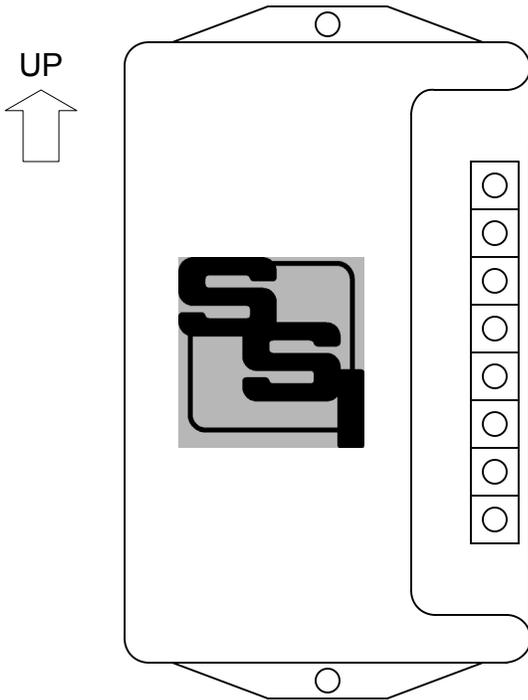
1807 E. Mulberry St., Fort Collins Colorado 80524

Phone: (970)221-9200 Fax: (970)221-9208 E-mail:support@solidstateinstruments.com

INSTRUCTION SHEET

RTR-2B PULSE ISOLATION RELAY

For Badger Record-All "RTR" Water Meters, Hersey ER-1 Water Meters and other Electric, Water & Gas Meters with open collector transistor outputs.



MOUNTING POSITION - Because the RTR-2B contains mercury-wetted relays, it must be mounted in a vertical position to operate correctly.

POWER INPUT - The RTR-2B should be powered by an AC voltage of between 90 and 300 volts. The hot lead should be connected to the L1 terminal and the neutral to the L2 terminal.

METER CONNECTIONS - The RTR-2B's input is suitable for an open-collector transistor type or non-polarized electromechanical switch or relay. "Kin" and "Yin" terminals should be connected to the water or gas meter's "-" & "+" terminals. The "+" terminal to the "Yin" terminal and the "-" terminal to the "Kin" terminal. The RTR-2B's "Yin" terminal is "pulled up" to +8VDC to +13VDC. The input is active when the "Yin" terminal is shorted or switched to the "Kin" terminal for **at least 50 microseconds**.

FUSES - The fuses are type 3AG and may be up to 2 Amps in size. Two 1/2 Amp fuses are supplied standard with the unit unless otherwise specified.

OUTPUTS - Outputs are dry-contact non-polarized Form "A" configuration for use with customer-owned energy management equipment or other equipment configured to receive pulses from dry-contact outputs. Arc suppression for the contacts of the mercury-wetted relay is provided internally. Upon a proper length input pulse, the each outputs will close for approximately 100mS.

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