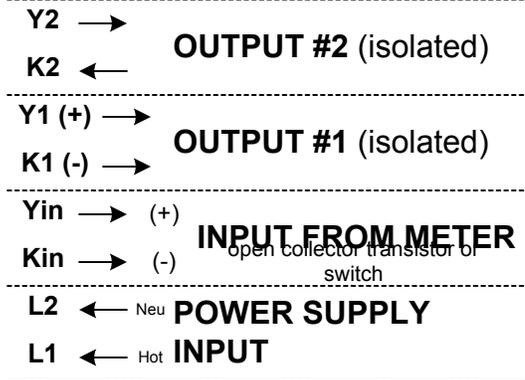
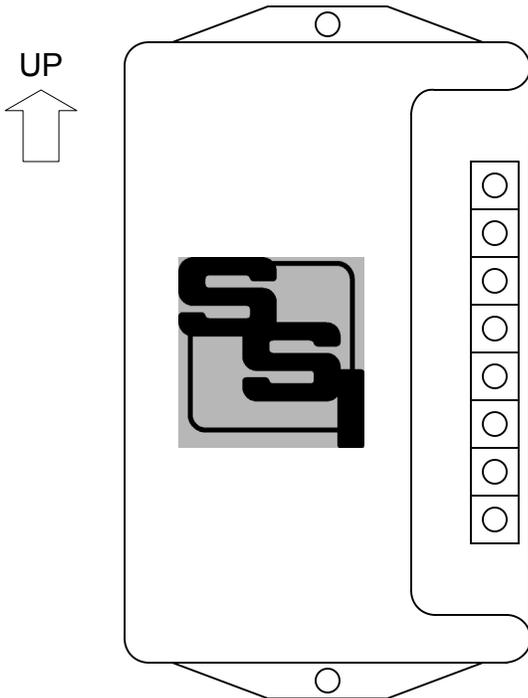


# INSTRUCTION SHEET

## 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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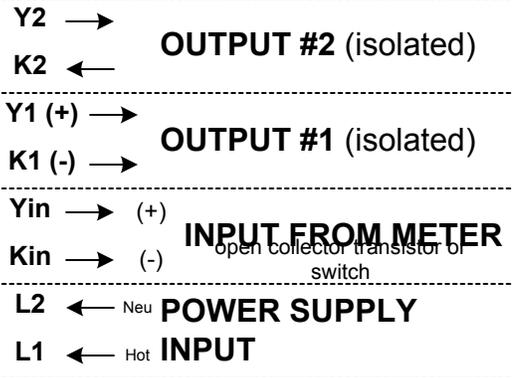
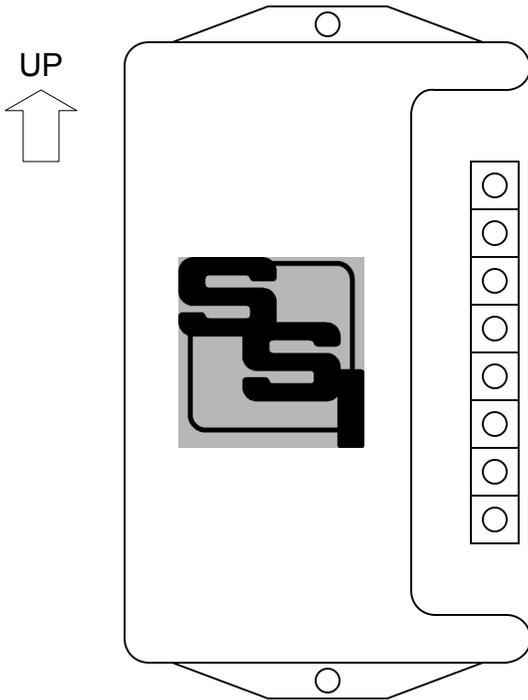
1807 E. Mulberry St., Fort Collins Colorado 80524

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.

## SOLID STATE INSTRUMENTS

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