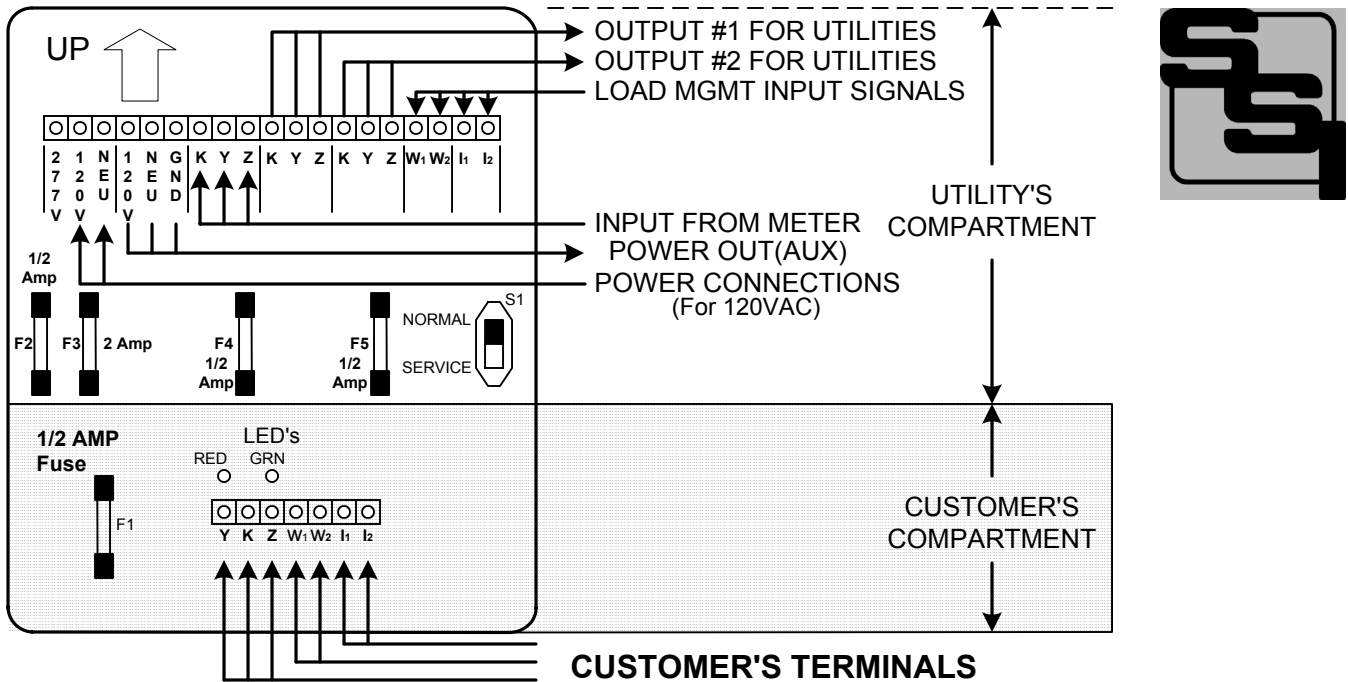


# INSTRUCTION SHEET

## LMR-1 CUSTOMER INTERFACE RELAY



**MOUNTING POSITION** - Because the LMR-1 contains mercury-wetted relays, it must be mounted in a vertical position to operate correctly.

**POWER INPUT** - If the LMR-1 is to be powered by a local power supply of between 90 and 200 volts, use the NEU and the 120V input terminals in the utility's compartment. For 200 to 350 VAC operation, use the NEU and 277V input terminals in the utility's compartment.

**METER CONNECTIONS** - Connect the K, Y, & Z leads from the meter to the K, Y, & Z terminals on the terminal strip in the utility's compartment. K to K; Y to Y; Z to Z. The LMR-1's "K" terminal provides the +13VDC wetting (sense) voltage to the meters' "K" terminals. The LMR-1 can only use 3-Wire inputs.

**CUSTOMER OUTPUTS** - The customer's output is at the bottom of the board in the customer compartment. Each K to Y input will cause a K to Y output. A K to Z input will result in a K to Z output. Arc suppression for the contacts of the mercury-wetted relays are provided internally. The LMR-1 also contains convenient termination points for two independent load management signals, "W" and "I". W1 and I1 are switched with S1 for either normal operation or service mode. W2 and I2 are straight-thru connections. In the normal mode, when the W1 and W2 inputs are closed (switched or shorted together) the output W1 and W2 outputs in the customer compartment "sees" this same switch state. When Switch S1 is in the service mode, the outputs are shorted together to simulate a load management input signal at the W and I inputs. In this way, customer-owned energy management equipment can be tested without an actual utility control signal having to be present.

**UTILITY OUTPUTS** - Two 3-Wire KYZ outputs are provided for utility use in the utility compartment.

**FUSES** - Fuse F3 in the utility's compartment is coordinated with the customer's fuse F1. Normally a 2 Amp fuse is used for F3 and a 1/2 Amp fuse is used for F1. Fuses F4 & F5 (1/2 Amp) protect the utility's outputs only and may be sized from 1/4 Amp to 2 Amp, depending on utility requirements. F2 is the 1/2 Amp power supply fuse.



## SOLID STATE INSTRUMENTS

a division of Brayden Automation Corp.  
 6230 Aviation Circle, Loveland Colorado 80538  
 Phone: (970)461-9600 Fax: (970)461-9605  
 E-mail: support@solidstateinstruments.com