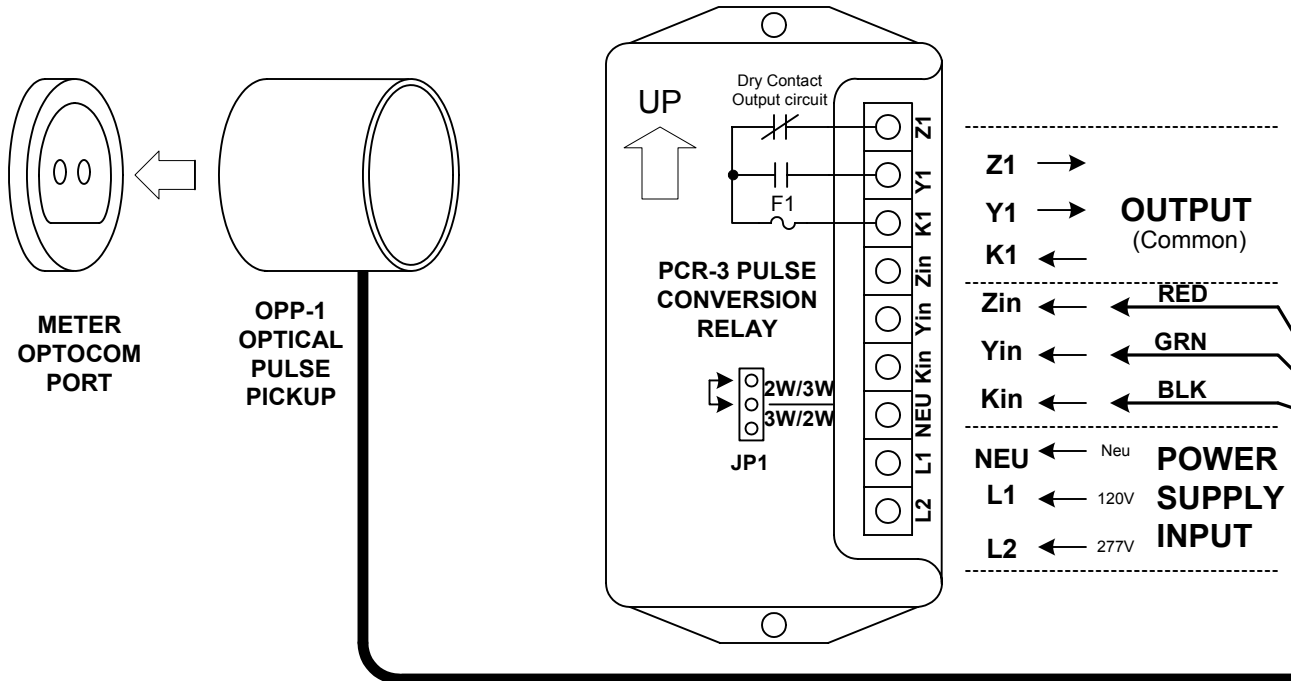




INSTRUCTION SHEET

OPP-1 OPTICAL PULSE PICKUP



GENERAL - The OPP-1 is an optical pulse pickup that uses the meter's 1kwh calibration pulse to read power being used by the building on which the meter is mounted. The OPP-1 uses a PCR-3 relay for power, pulse conversion and output isolation. Each time the meter's optical calibration pulse flashes, the OPP-1 picks up the flash and converts it to one Form C (3-wire) pulse on the PCR-3's output.

MOUNTING - The OPP-1 mounts on the meter's OPTOCOM port by magnetically snapping into place. It will fit only one position and is oriented by matching up the flat side of the port to the flat side of the OPP-1's front side. The PCR-3 must be mounted in an upright position as shown.

POWER INPUT - The PCR-3 is powered by an AC voltage of between 90 and 300 volts. For 120VAC line operation, connect the 120VAC HOT lead to the L1 terminal. For 208 to 277VAC line operation, connect the 208-277VAC HOT lead to the L2 terminal. Connect the neutral lead to the NEU terminal.

INPUT - Connect the OPP-1 as shown above to the PCR-3's input terminal. Connect the black wire to the "Kin" terminal, the green wire to the "Yin" terminal and the red wire to the "Zin" terminal. Maximum distance between the OPP-1 and the PCR-3 input is 25 feet.

OUTPUT - One 3-wire isolated "dry-contact" output is provided on the PCR-3 with output terminals K1, Y1 and Z1. Internal RC arc suppression for the mercury-wetted relay is provided.

FUSE - The fuse is type 3AG and may be up to 2 Amps in size. A 1/2 Amp fuse (F1) is supplied standard.

OPERATION - Jumper JP1 must be in the top position. For each input pulse from the OPP-1, the output will change state, alternately giving continuity between K1 and Y1 on the first pulse, then K1 and Z1 upon the next pulse. This system must be used with an electric meter that has a default calibration pulse Optocom mode. That means that, unless a meter reading device or other serial communications device is talking to the meter through the Optocom port, the meter will default back to the calibration pulse mode, and flash each time 1kwh is measured by the meter.

NOTE: Not all meters do this.



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