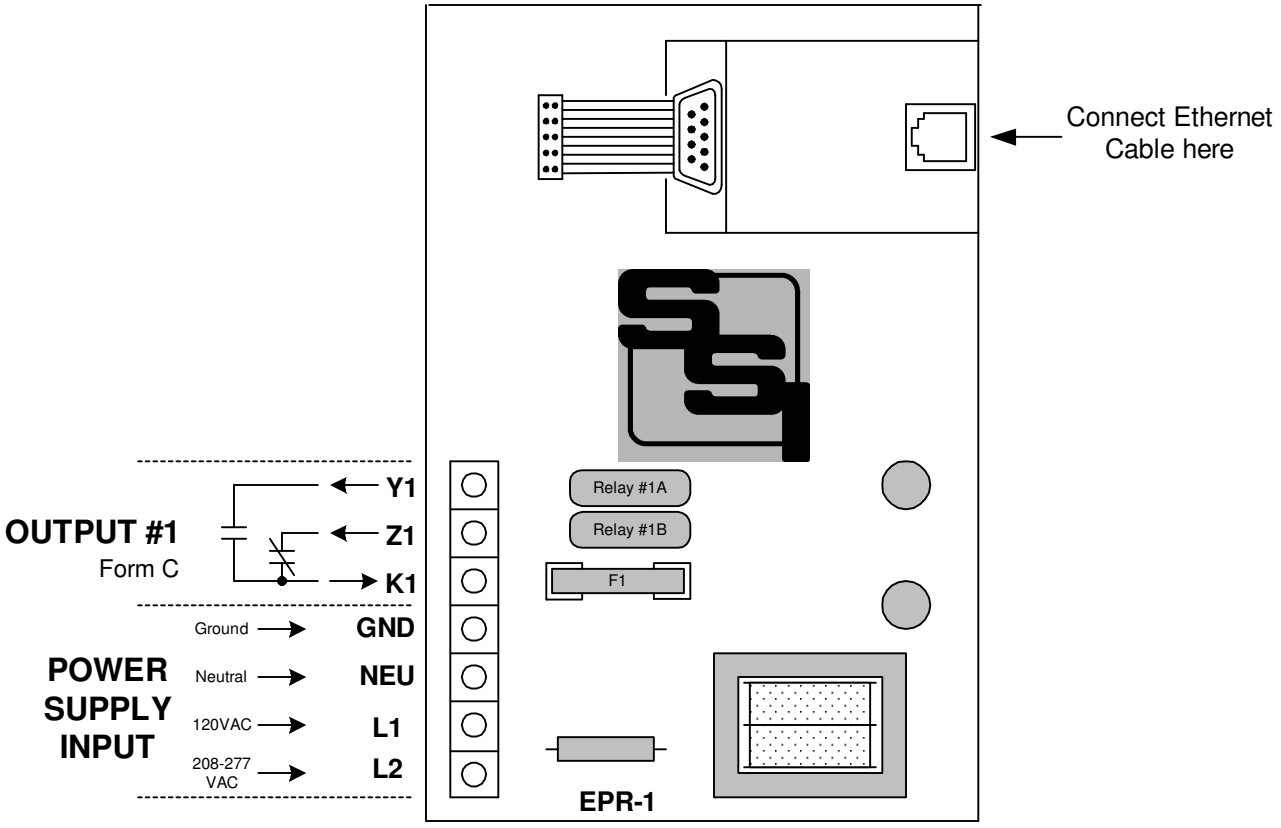
EPR-1

Elite Solid State

ETHERNET PULSE RECEIVER INSTRUCTION SHEET



MOUNTING POSITION - The EPR-1 may be mounted in any position. The EPR-1 is supplied in chassis form, meaning the PCB assemby is mounted on a chassis for mounted in another metering or instrumentation enclosure.

POWER INPUT - The EPR-1 can be powered by 120VAC or 208 to 277VAC. Connect the **GND** terminal to the electrical system ground. Connect the Neutral lead to the **NEU** terminal. Connect the **L1** terminal to the 120VAC "Hot" lead for 120VAC operation. Connect the **L2** terminal to the 208, 240, or 277 "Hot" lead. **Do not use both L1 and L2. Exercise caution when board is energized. There is voltage present at L1 and L2 when powered.**

RELAY OUTPUT - The EPR-1 has one KYZ pulse output that can be used as either 2-Wire (Form A) or 3-Wire (Form C). It is K1,Y1, & Z1. For 2-Wire mode, either the K & Y or the K & Z terminals may be used. For 3-Wire mode, all three wires must be used. Relay outputs are electrical isolated, solid-state, dry-contact type with NO sourced voltage. The user must supply their own wetting voltage up to 250VAC/VDC at 500mA.

FUSE - Fuse (F1) supplied on the EPR-1 is 1/2 Amp, type 3AG. This fuse protects the output switching devices on output #1.

GROUND - The GND terminal on the EPR-1 is a common ground with the chassis and is connected to the Chassis by means of the middle right-hand mounting screw. Therefore, if necessary, the electrical system ground can be connected to the EPR-1's chassis. Do not tie the Ground and Neutral terminals together.

ETHERNET CONNECTION - Connect the ethernet jack on the EPR-1 to your network's router or switch as shown in Figure 1 on Page 2. It cannot be directly connected to the EPT-1.

SOLID STATE INSTRUMENTS

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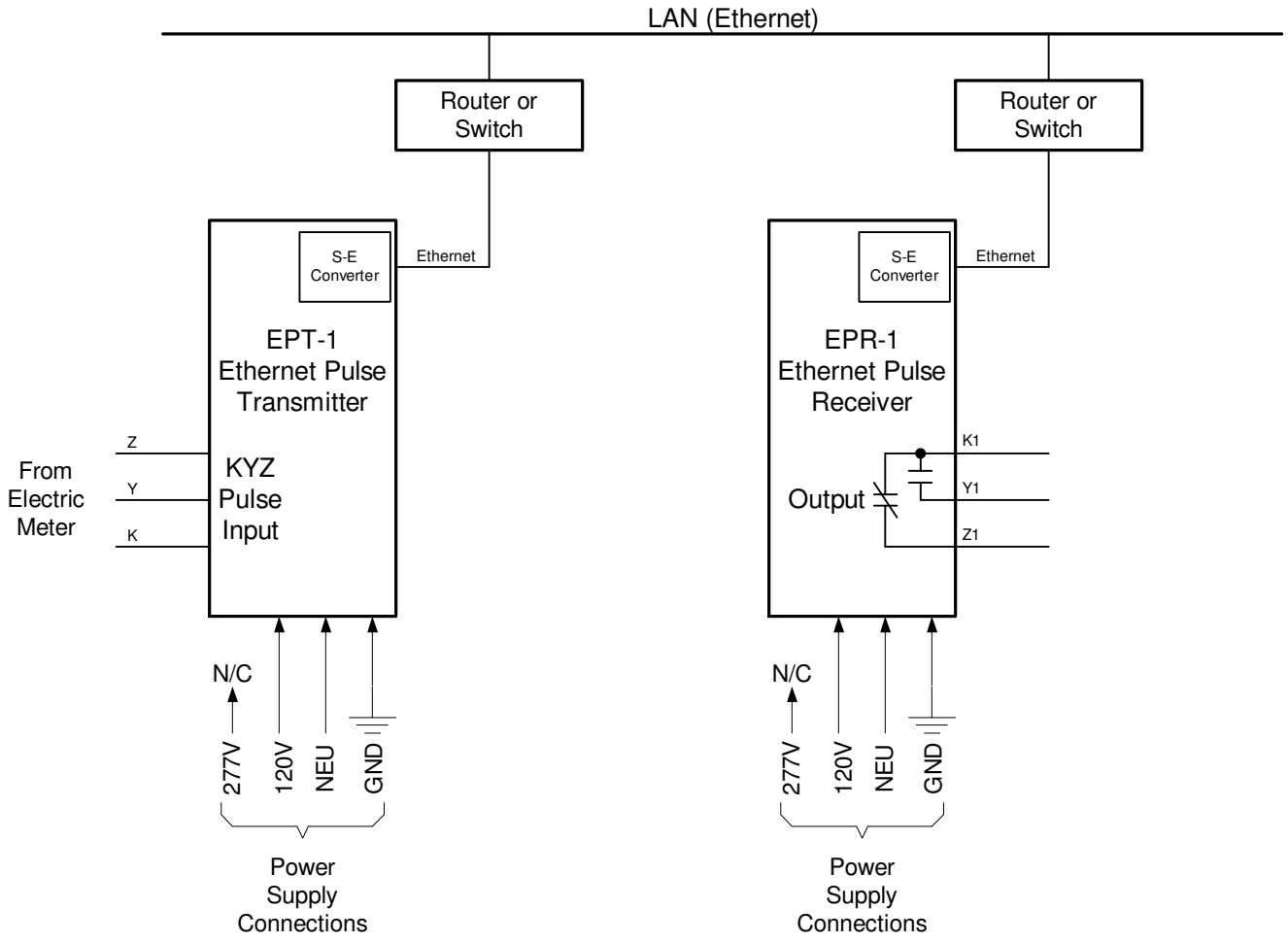
INSTRUCTION SHEET
EPR-1 ETHERNET PULSE RECEIVER (con't)

Ethernet Cable Connections - Connect the EPT-1's serial to ethernet converter module in the upper right hand corner of the EPT-1 to the local area network's router or switch. Using the information provided for the serial to ethernet converter, install the programming software. Program the Transmitter unit to Server and the Receiver to Client. Set the Serial settings as follows: 115,200/8/1/N. Set the port to 4000. Program the receiver's static IP address into the transmitter in the "Remote IP Address" field. Program the transmitter's static IP address into the receiver in the "Remote IP Address" field.

The EPR-1 will receive pulse information from the EPT-1 transmitter. A pulse rate should be programmed into the meter which will place very little load on the available bandwith of the network. A good rule of thumb would be 1 pulse per second at full scale output. For instance, if the maximum load was approximately 1000 KW, program the meter's pulse output for a Ke value that will allow approximately 1 pps at 1000KW.

EPL SYSTEM BLOCK DIAGRAM



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