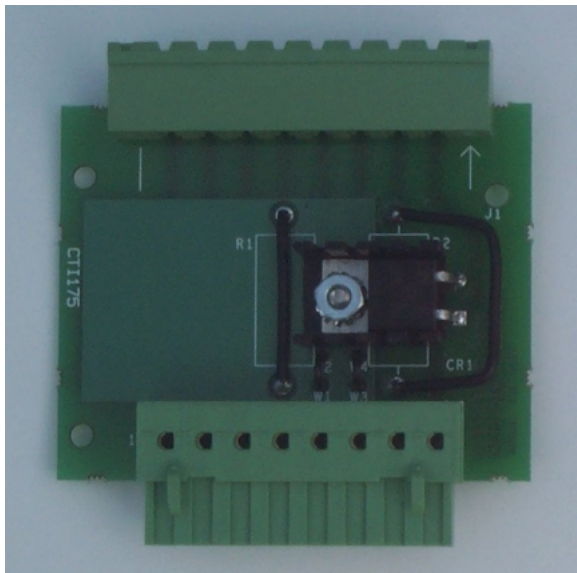


Introduction

This packing list contains information on installation, operation, and a parts list for the Model 2510-RH Resistive Heater Control Adapter. The Model 2510-RH (shown in Figure 1) allows the Model 2510 TEC SourceMeter to be used with a resistive heater instead of a thermoelectric cooler.

Figure 1
2510-RH



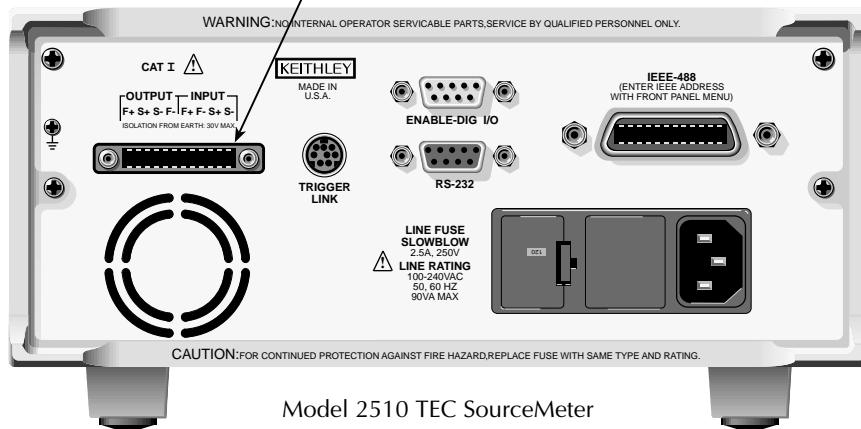
Installation and connections

With the power off, connect the Model 2510-RH to the Model 2510 TEC SourceMeter rear panel INPUT/OUTPUT connector (see Figure 2 for location). Connections can be made as outlined in Section 2 of the Model 2510 User's Manual. Simply connect the resistive heater to the equivalent Model 2510-RH OUTPUT terminals in place of the thermoelectric cooler shown on input/output connection diagrams. Make sensor connections to equivalent Model 2510-RH INPUT terminals as needed.

Figure 2

Connector location for Model 2510-RH installation

Connect 2510-RH to INPUT/OUTPUT Connector.
Connect resistive heater to OUTPUT terminals in place of TEC.



Operation

To operate, turn on the Model 2510 power and set up operating modes as desired. With the Model 2510-RH installed, current will flow through the resistive heater when the system calls for heat, and no current will flow through the heater when the system calls for cooling, allowing the resistive heater to cool through radiation, conduction, or convection.

Refer to the Model 2510 User’s Manual for detailed operating information.

Parts list

Table 1 summarizes Model 2510-RH parts.

Table 1
Model 2510-RH parts list

Quantity	Circuit designation	Description	Keithley part no.
1		4-40 Kep nut	4-40KEPNUT
1		4-40 × 3/8 Phillips pan head screw	4-40 × 3/8 PPHSEN
1	CR1	Diode, barrier, MBR745	RF-65
1	J1	Connector	CS-834
1	P1	Connector	CS-983-8
1		Heat sink	HS-33