

Resistance Gauge Transducers. A popular joint meter that uses a resistance gauge transducer is the Carlson-type joint meter, shown in Figure IV-21. In this instrument, the bellows near the center of the instrument permits movement to be transmitted to the interior elastic wires, which act as unbonded strain gauges. The elastic wires are connected to resistors, and joint movements are read by means of a readout unit.

Cables are attached at the factory according to user specifications. The cables permit the testing set to automatically subtract cable resistance in order to determine temperature only.

Figure IV-21. Carlson-Type Joint Meter

