

Exercise 1: Introduction to Transducers

EXERCISE OBJECTIVE

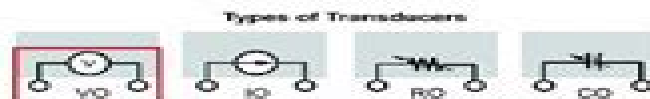
When you have completed this exercise, you will be able to describe the basic operation of transducer devices. You will verify your results by measuring basic transducer output parameters.

DISCUSSION

Different input transducers have different outputs. Some of the more common output types are shown.



Some transducers have a voltage output that is a function of the input parameter. For example, the thermocouple on your circuit board is a temperature transducer whose output is a voltage that is a function of temperature.



Other transducers may output a current that is a function of the input parameter. An example of this type is the IC temperature transducer on your circuit board.



Other transducer types output a resistance change that varies with the input parameter. Examples on your circuit board include the resistance temperature detector (RTD), thermistor, and strain gauge.



When this type of transducer is connected in a circuit, the transducer appears electrically as a

- voltage source.
- current source.
- variable resistor.

Transducer Fundamentals Student Lab Manual Answers

M Walker



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