

Block 2 Multimeter Measurements

# LESSON 2

# METERS AND MULTIMETERS

#### **OBJECTIVES**

Upon completion of this lesson, the student will be able to:

- Describe a typical multimeter and explain its purpose.
- Explain the difference between analog and digital multimeters and describe the advantages and disadvantages of each.
- Identify the five sections of a typical multimeter and describe their functions.
- Operate typical analog and digital multimeters.
- Use a multimeter to set and to measure DC voltages on the Nida Model 130E Test Console.

#### PREREQUISITES

None

#### EQUIPMENT REQUIRED

Nida Model 130E Test Console
Nida Series 130 Experiment Card:
PC130-CF
Nida Model 480 Hand-Held Analog
Multimeter, or equivalent
Nida Model 488 Hand-Held Digital
Multimeter, or equivalent
Nida Model 411 Digital Multimeter, or
equivalent

#### **OVERVIEW**

This lesson introduces students to meters and multimeters, the most commonly used test instruments in electronics today.

Students first learn what meters and multimeters are and what they do.

The lesson then explains the difference between analog and digital multimeters. Students learn the advantages and disadvantages of each.

The lesson next describes the five common sections and functions of a typical multimeter. Students learn to identify the basic multimeter controls and their functions. The four-part experiment provides students with hands-on training in operating meters and multimeters.

In addition to using the test console analog VOLTMETER, students operate an analog multimeter, and two different digital multimeters.

Following step-by-step experiment procedures, students use the instruments both to set and measure output voltages on the Nida Model 130E Test Console.

# **All Test Answers For Nida Series 130e**

**LL Leslie** 

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and

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