

# Model D4028/D4032 8" & 12" Digital Scale Instruction Sheet



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## Introduction

Mount the Model D4028/D4032 on woodworking and metalworking machinery for precise relative distance measurements between fixed and moving parts, such as table height, cutter height, tool depth and more.

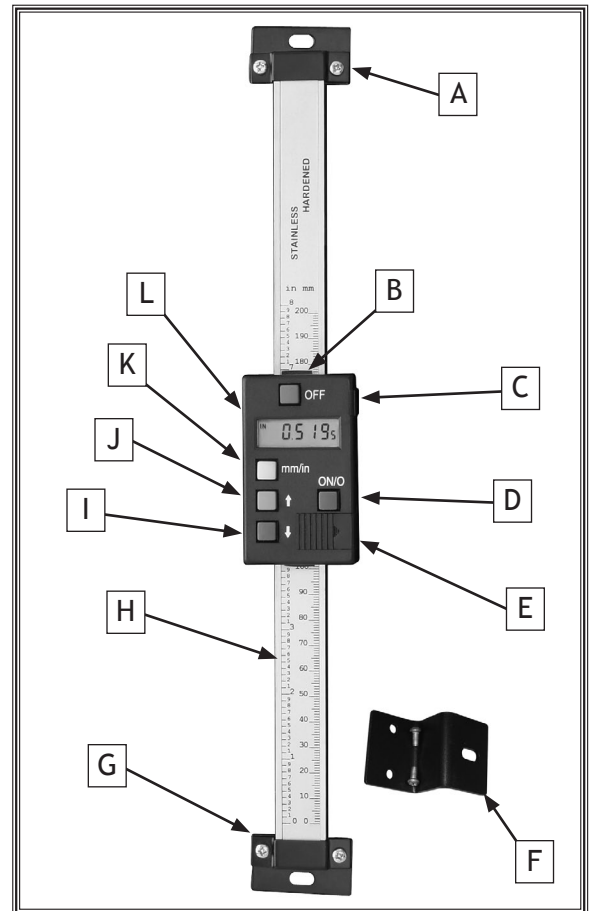
## Specifications

Maximum Measuring Distance (D4028) ..... 8<sup>1</sup>/<sub>2</sub>" (216mm)  
 Maximum Measuring Distance (D4032) ..... 12<sup>3</sup>/<sub>4</sub>" (324mm)  
 Resolution ..... 0.01mm  
 Maximum Measuring Speed ..... 1500mm/sec  
 Battery ..... One 1.5V AG13 (LR44) Button Cell  
 Data Port ..... 2-Conductor Serial

## Identification

Refer to **Figure 1** and the following descriptions to better understand the components of the digital scale.

- A. **Upper Mounting Bracket:** Secures the scale body to a fixed machine part with <sup>3</sup>/<sub>8</sub>" screws (not included).
- B. **OFF Button:** Turns unit **OFF**.
- C. **Data Port:** Allows a connection to an exterior device.
- D. **ON/Zero Button:** Turns unit **ON** and zeros the display when held.
- E. **Battery Compartment Cover:** Slides to the right for access to the battery.
- F. **Display Mounting Bracket:** Installs on the back of the display unit with the two included M3-.5 x 6 Phillips head screws, and mounts to a movable machine part with <sup>3</sup>/<sub>8</sub>" fasteners.
- G. **Lower Mounting Bracket:** Works with the upper mounting bracket to secure the scale body.
- H. **Scale:** Shows the relative distance the display unit moves in inches (0.10" resolution) and millimeters.



**Figure 1.** Identification (Model D4028 shown).

- I. **Decreasing Button:** When held, decreases the displayed number for precise adjustments.
- J. **Increasing Button:** Increases the displayed number when held.
- K. **Inch/mm Button:** Toggles the display between inches and millimeters.
- L. **Digital Display:** Displays the current measurement.

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## Mounting

The digital scale can be mounted to machinery in various ways. The goal is to attach either the display unit or scale body to a fixed machine part and the other component to the movable machine part. This allows you to measure the relative distance the movable machine part travels.

**IMPORTANT:** *Choose the digital scale model that has a scale body longer than the full travel of the parts being measured. This will ensure that the display unit is not damaged as the machine parts move through their full range of motion.*

## Calibration

When the digital scale is properly attached to the machine, bring the movable machine part to the starting position, then press the ON/Zero button to zero the display. Position the movable machine part a known distance from the starting point, then use the decreasing and increasing buttons to make the display reading agree with the known distance.

## Battery

If the digital display does not come on or it flashes, the battery voltage is low. Turn the unit **OFF**, remove the battery compartment cover by sliding it to the right, then replace the battery. Re-install the cover before turning the unit **ON**.

## Troubleshooting

Problem	Possible Cause	Corrective Action
Flashing digits.	Low battery.	Replace the battery.
Frozen digits.	Internal circuit error.	Remove battery, wait 30 seconds, then replace battery.
No display.	Low battery voltage; poor contact.	Replace battery; make sure the battery contacts are clean.

## NOTICE

The Model D4028/D4032 digital scale is not designed to be used around liquids of any kind. Exposing the display unit to liquids could cause permanent damage to the internal electronics, which will not be covered under warranty.