



# Crimp Height Micrometer Specification Sheet Order No. 63800-2820



## Features

- Measuring range: 0-1in. (0-25mm)
- Resolution: 0.00005in (0.001mm)
- Accuracy:  $\pm 0.0001$ in (0.002mm)
- Calibration certificate included (traceable to NIST)

## Description

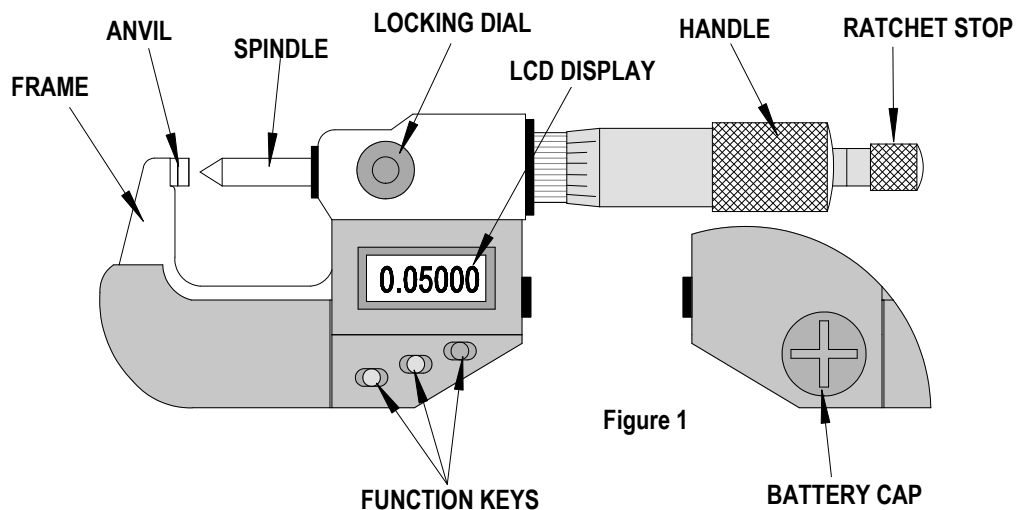


Figure 1

This is a micrometer specifically designed to measure crimp height. It has an anvil (thin blade) that supports the top of the crimp while a spindle (pointed section) contacts the bottom radial surface. See Figure 1.

## LCD Display

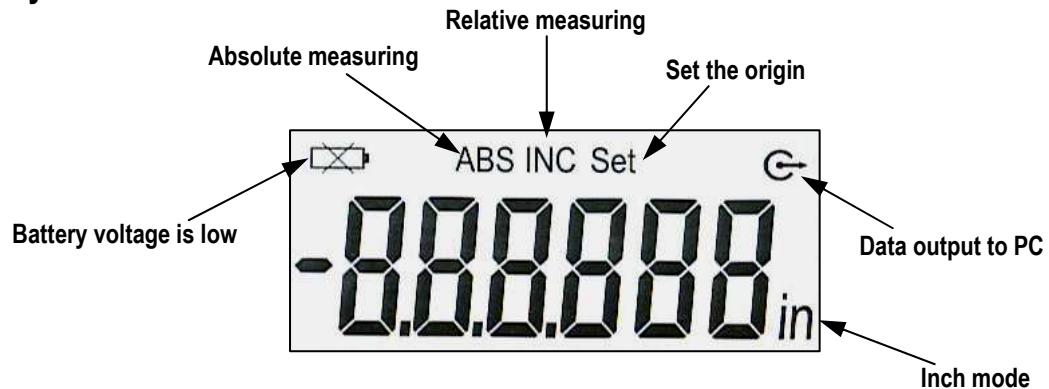




Figure 2

## Operation

- There are two ways of pressing the function keys:

 Press and release      or


 Press and Hold (more than 1 second)


### 2. ON/OFF...SET

 = **ON/OFF**      Power on/off.

 = **SET**      Set the origin.

### 3. ABS/INC...UNIT


 = **ABS/INC** Absolute/Relative measuring mode conversion.

 = **UNIT** Metric/Inch measuring mode conversion.

### 4. Set the origin

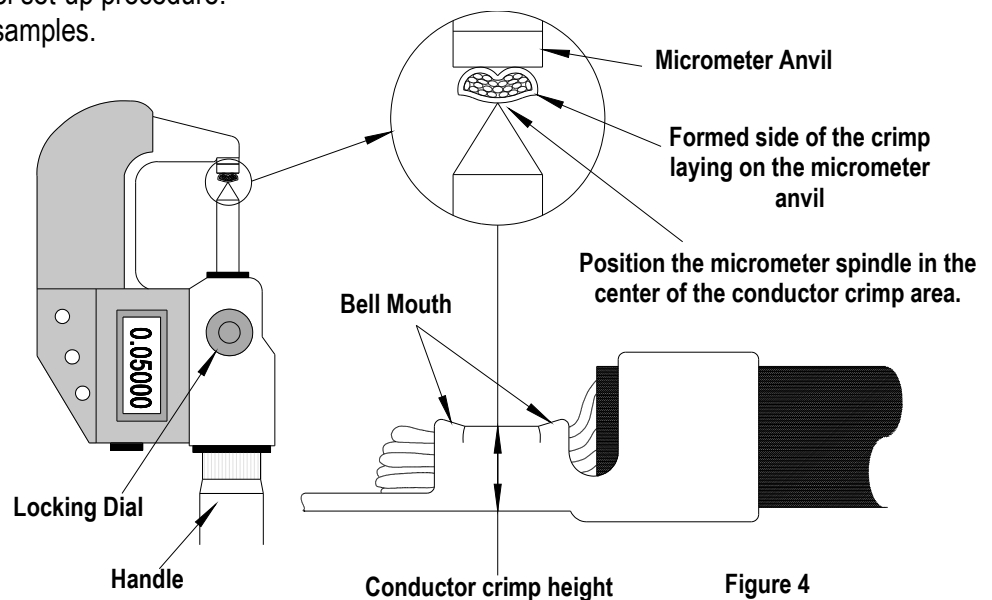
Press and hold the “**SET**” key until the “**SET**” flashes once on the LCD and the display is set to the origin.

## Power

- The battery is a SR44, 1.5V. Replace the battery when the display is blurring or the “” appears.
- If the micrometer is not in use, the power will shut off in 5 minutes. The micrometer will turn on when pressing the **ON/OFF** key or turning the spindle.
- Power off the micrometer when not in use, by pressing the **ON/OFF** key.
- Remove the battery if the micrometer is not being used for a long period of time.

## How to Measure Crimp Height (See Figure 4)

- Complete the crimping tool set-up procedure.
- Crimp a minimum of five samples.




- Place the Anvil (flat blade) of the crimp micrometer across the top of the dual radii of the conductor crimp. Do not take the measurement near the conductor bell mouth.
- Rotate the micrometer spindle until the point contacts the bottom radial (curved) surface. Do not excessively tighten the point against the terminal.
- Record crimp height readings. A minimum of five crimp height readings is necessary to confirm the crimping tool set-up. A minimum of 25 readings should be taken for determining process capability.

**For additional information, please refer to the Molex Quality Crimping Handbook (TM-63800029)**

## Specifications

Measuring force:	5 ~ 10N	Power consumption:	<=35 $\mu$ A
Operation temperature:	0 ~ 40°C	Storage temperature:	-20 ~ 60°C
Protection class:	IP54 (Resist water splash) IP65 (Resist water spray)		

## Troubleshooting

Symptom	Cause	Resolution
Display "E 1" Display "Exxxxx"	1. Measuring value over display range.1"	Reset the origin or convert to relative measuring mode.
Display "E 2"	1. The origin is too great.	Reset the origin.
Display "E 3" Display "E 8"	1. Internal error in the micrometer. 2. Something wrong with the sensor.	Reset the battery.
Measuring value is not correct	1. Measuring surfaces are dirty. 2. The origin is not correct.	1. Clean measuring surfaces. 2. Reset the origin.
No display Display is blurring or  appears	1. Battery voltage is under 1.45V.	Replace the battery.
The output data is incorrect	1. Battery voltage is under 1.45V.	Replace the battery.

## Maintenance

It is recommended that each operator of the tool be made aware of, and responsible for, the following maintenance steps:

1. Remove dust, moisture, and other contaminants with a clean brush, or soft, lint free cloth.
2. Do not use any abrasive materials that could damage the tool.
3. When tool is not in use, turn off and store in a clean, dry area.
4. There are no repair parts except for the batteries available for this tool. Should the tool be damaged a new tool is required.

## Warranty

This tool is for electrical terminal crimping purposes only. This tool is made of the best quality materials. All vital components are long life tested. All tools are warranted to be free of manufacturing defects for (1) one year. Should such a defect occur, we will repair or exchange the tool free of charge. This repair or exchange will not be applicable to altered, misused, or damaged tools. This tool is designed for hand use only. Any clamping, fixturing, or use of handle extensions voids this warranty.

## Contact Information

For more information on Molex application tooling please contact your nearest Molex location shown below.

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