

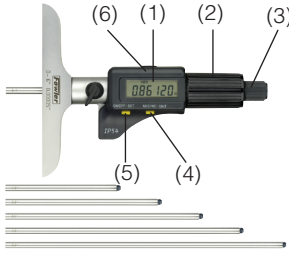


Electronic Micrometer

Part Number: 54-225-456

Operation Manual

1. Functional elements



- (1): LCD display
- (2): Friction drive
- (3): Quick drive
- (4): ABS/INC key
- (5): ON/OFF key
- (6): Data output

2. Keys

ON/OFF key: Power switch. Datum set.
 ABS/INC key: Absolute & relative measuring. Metric/Inch conversion.

3. LCD Display



- "ABS" : Absolute measuring mode.
- "INC" : Relative measuring mode.
- "SET" : Datum set.
- "in" : Unit: inch, otherwise mm.
- ☒ : Battery voltage low.
- ⏏ : Data output is transmitting.

4. Operation

Two ways of pressing the keys are used in the following illustrations:
 (1) Press and release; (2) Press and hold (2 sec. or more).

4.1 ON/OFF key:

Press and release: Power on/off.
 Press and hold (2 sec. or more): Datum setting for absolute measurement; "Set" sign displayed on LCD.
 Origin of metric is 0, 25, 50, 75 ••• 275mm. Origin of inch is 0, 1", 2", 3" ••• 11".
 Sets datum automatically after battery reset.

4.2 ABS/INC key:

Press and release: Absolute and relative measuring mode conversion; "INC" sign displayed on LCD in relative measuring mode. "ABS" sign displayed on LCD in absolute measuring mode.
 Press and hold (2 sec. or more): Metric/Inch conversion; "in" sign displayed on LCD for inch, otherwise mm.

5. Power

- A silver oxide cell SR44 is inserted into the back of the instrument with the positive pole outward. Replace the battery when the display data is dim or the "☒" sign is displayed in the upper left of the LCD.
- If not used for approximately five minutes, the power will auto-off. The micrometer will turn on by pressing "ON/OFF key" or turning the spindle. Power off the micrometer by pressing "ON/OFF key" to save the battery.

6. Specifications

Measuring force: 5 ~ 10N Power consumption: ≤ 20 μA
 Operating temperature: 0 ~ 40°C Storage temperature: -20 ~ 60°C

7. Data Output

1200 Baud, no parity, 7 data bits, 2 stop bits, no flow control.

8. Precautions

- Do not subject the instrument to blows or knocks. Do not drop it or apply excessive force.
- Do not disassemble the instrument.
- Do not press the keys with a pointed object.
- Do not use or store the instrument under direct sunlight, or in an excessively hot or cold area.
- Do not use the instrument near strong magnetic fields and high voltages.
- Use a soft cloth or a cotton swab that is dry to clean the instrument. Do not use organic solvent such as acetone or benzene. Alcohol may be used.
- Wipe the measuring faces of the instrument before using it.
- Remove the battery if the instrument is not used for a long period of time.

9. Troubleshooting

Failure	Causes	Repairing The Failure
Display "E 1" on LCD.	Data overflow.	Move spindle in reverse or press "ON/OFF key".
Display "E 3" on LCD.	1. Sensor overflow. 2. Something wrong with sensor.	1. Reset battery (remove for 3 minutes). 2. Return the micrometer for repair.
Measuring data is not correct.	1. Dirty measuring surfaces. 2. Preset data is not correct.	1. Clean measuring surfaces. 2. Inspect preset data and reset it.
No display on LCD.	1. Battery voltage under 1.45v. 2. Battery is not properly set.	1. Replace battery. 2. Reset battery (remove for 3 minutes).
Display confused or remains blank. 1. Display blurred. 2. The output data is wrong.	Battery voltage under 1.45v.	Replace battery.

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