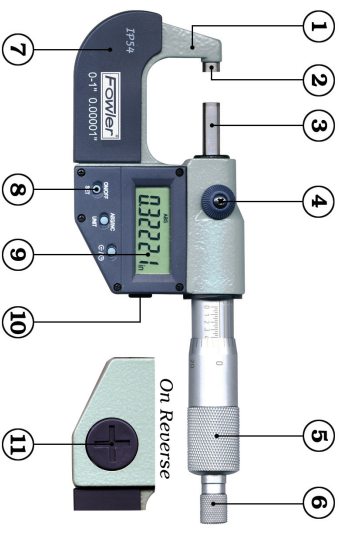
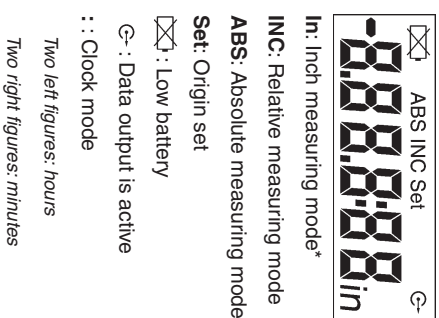


## 1. Functional Elements



## 2. LCD Display



## 3. Operation

- Keys are pressed two ways to execute functions:

1. Press and immediately release.
2. Press and hold for at least two seconds.

### 3.1 ON/OFF—SET Key

- Press and release: *Power on/off.*
- Press and hold: Zero set for absolute measuring ("Set" will appear.)

### 3.2 ABS/INC—Unit Key

- Press and release: *Absolute and relative measuring mode conversion.*
- Press and hold: *Inch/Metric conversion ("in" will appear for inch readings, otherwise the display reads in metric.)*

### 3.3 ☒/☒ : Data output and clock switch key

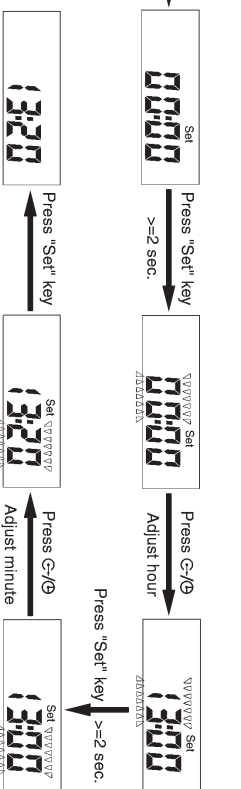
*In measuring mode, this is the data output key.*

- Press and release: The micrometer will output the displayed data.
- Press and hold: The micrometer will output the displayed data continually until the button is pressed again.

#### Setting the Clock

- After powering off the micrometer press the ☒/☒ key again: The micrometer will enter clock mode and display the current time.

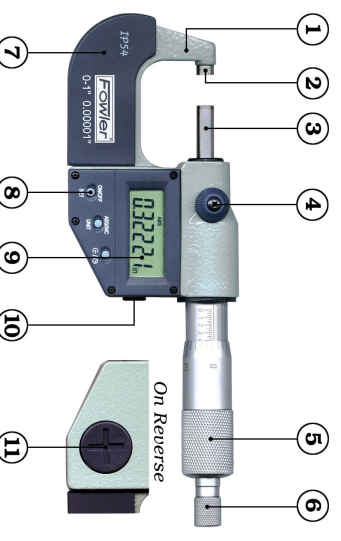
PRESS ☒/☒



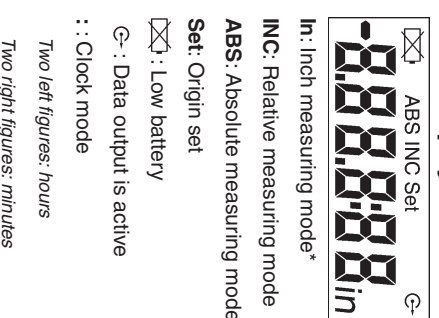
- Press the ☒/☒ key again to switch off the clock. The micrometer will enter measuring mode by pressing the "ON/OFF—SET" key.

\* Metric is functional but not represented by an icon.

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## 2. LCD Display



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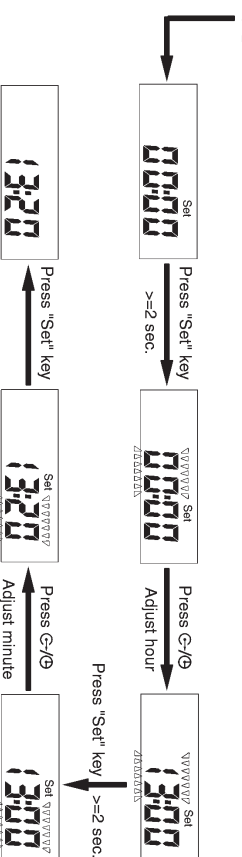
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PRESS ☒/☒



- Press the ☒/☒ key again to switch off the clock. The micrometer will enter measuring mode by pressing the "ON/OFF—SET" key.

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4. Power

- If the micrometer is not used for five minutes the power will automatically shut off. The micrometer will awaken by pressing the "ON/OFF—SET" key or by turning the spindle. Powering off the micrometer by pressing the "ON/OFF—SET" key to save the battery when not in use is recommended.
- Use a SR44 battery, and replace the battery when the display begins to blur or the "X" is displayed on the LCD.
- Remove the battery cap by turning it counterclockwise with a coin.
- Insert a new battery with positive (+) side up. Replace the battery cap by turning it clockwise with a coin.

5. Data Output

- The output interface is a RS232C.
- The micrometer can be attached to a PC's serial port by an SPC cable (contact Fowler) or to a PC's USB port by an SPC cable and a USB to serial port cable (contact Fowler.)
- To attach the cable, remove the data output cap and insert the cable.
- When not using the interface, always keep the data output cap in place.

5.1 Serial Port Information

- Baud rate: 1200 Kb/second
- Parity: none
- Stop bits: 2
- Data bits: 7

6. General Specifications

- Measuring force: 5-10N
- Power Consumption: <=25µA
- Operating temperature: 0-40°C
- Storage temperature: -20-60°C

7. Precautions

- Do not subject the instrument to blows or shock. 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.
- Avoid exposing the instrument to temperature extremes.
- Keep the instrument away from strong magnetic fields and high voltage.
- Use a soft material to clean the instrument. Never use organic solvents such as acetone or benzene to clean.
- Clean measuring faces before use
- If the instrument is to be stored or left unused for extended periods, remove the battery.

8. Troubleshooting

| Problem(s)                                                                 | Cause(s)                                                               | Solution(s)                                                   |
|----------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------|
| LCD displays "E1"                                                          | Data overflow                                                          | Reverse spindle or, press "ON/OFF—SET" key                    |
| LCD displays "E3"                                                          | 1. Sensor overflow<br>2. Sensor malfunction                            | 1. Reset battery<br>2. Return micrometer for repair           |
| Measuring data incorrect                                                   | 1. Dirty measuring faces<br>2. Preset data is incorrect                | 1. Clean measuring faces<br>2. Inspect and reset preset data  |
| No display on LCD                                                          | 1. Battery position is incorrect<br>2. Battery is dead                 | 1. Reseat battery<br>2. Replace with new battery              |
| 1. Flickering display<br>2. Display is sporadic<br>3. Display remains dead | 1. Weak battery<br>2. Weak battery<br>3. Battery position is incorrect | 1. Replace battery<br>2. Replace battery<br>3. Reseat battery |
| 1. Display is blurry<br>2. Output data is incorrect                        | Weak battery                                                           | Replace with new battery                                      |

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1-800-788-2353 • (617) 332-7004 • Fax (617) 332-4137  
Internet: www.fvfowler.com • E-mail: sales@fvfowler.com

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