



FREEMANS
PRECISION

DIGITAL OUTSIDE MICROMETER



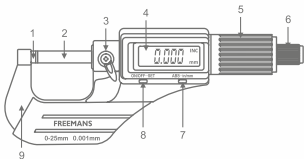
 WATCH VIDEO 

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USER MANUAL



Nomenclature



Also included in the package



Spherical
Anvil



Spanner



Setting
Standard
(Except 0-25mm/0-1in)



Extra
Battery
CR203

- | | |
|---------------------------------------|--------------------|
| ❶ Anvil with Carbide Measuring Face | ❺ Friction Drive |
| ❷ Spindle with Carbide Measuring Face | ❻ Quick Drive |
| ❸ Locking Screw | ❼ ABS - in/mm Key |
| ❹ LCD Display | ❽ ON/OFF - SET Key |
| | ❾ Frame |

Technical Specifications

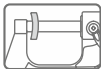
Measuring Range	FDOM25	0-25mm 0-1in
	FDOM50	25-50mm 1-2in
	FDOM75	50-75mm 2-3in
	FDOM100	75-100mm 3-4in

Technical Specifications

Accuracy	FDOM25	±0.003mm 0.00012in
	FDOM50	±0.003mm 0.00012in
	FDOM75	±0.004mm 0.00016in
	FDOM100	±0.004mm 0.00016in
Measuring Force	5~10N	
Resolution	±0.001mm 0.00005in	
Power Consumption	≤20μA	
Working Temperature	0°-40°C 32°-104°F	
Storage Temperature	20°-60°C 68°-140°F	

Measuring Method

1. Wipe the Micrometer with a soft cloth before you start taking measurements. The Micrometer should be checked to ensure it is not in relative measuring mode.
2. While measuring an object, let the anvil make contact with the object first. Continue to rotate the friction drive until you hear the clicking noise. Alternatively, rotate the quick drive until the spindle is close to, but not touching the object, as making contact may damage internal precision threads.
3. Install spherical anvil on the anvil, in order for the Micrometer to measure the thickness of curved parts such as tubes and pipes.



4. The Micrometer will automatically switch off if not used for approximately 5 minutes. Press the ON/OFF - SET Key to switch your Micrometer back on.

Button Functions

ON/OFF - SET Key

1. Short press : Power on/off.
2. Long press (2 seconds or more) : To reset Micrometer
 - a) For 0-25m/0-1", close the two measuring faces and long press the ON/OFF - SET Key to set the micrometer to 0.0.
 - b) For other sizes, let the setting standards ends be in contact with the measuring faces, then long press the ON/OFF - SET Key. The reading will show the length of the setting standard.

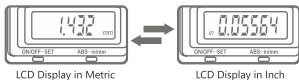
ABS - in/mm Key

1. Short press ABS - in/mm Key to change to relative measuring mode. The LCD display will show "INC", and the reading will reset to relative zero. Press the button again to exit relative measuring mode.



Display shows INC in relative measuring mode

2. Long press (2 seconds or more) ABS - in/mm Key to swap between Inch and Metric readings.



Maintenance Instructions

- ✗ 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.

Maintenance Instructions

- ✗** Do not use or store instrument under direct sunlight, or in an excessively hot or cold area.
- ✓** 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.
- ✓** 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.

Battery Replacement

If the LCD display is dim or flashing, the battery needs replacing:

1. Turn the battery cover 45° counter clockwise using the spanner provided in the box.
2. A CR2032 Lithium battery is inserted into the back of the instrument with its positive pole facing outwards.



3. Put the battery cover back and turn it clockwise 45° to secure the battery.



Troubleshooting

PROBLEM	POSSIBLE CAUSES	SOLUTION
Incorrect measurement reading.	<ol style="list-style-type: none"><li data-bbox="353 298 622 451">1. Dirty measuring surfaces.<li data-bbox="353 461 622 666">2. Micrometer is in relative measuring mode.	<ol style="list-style-type: none"><li data-bbox="643 298 930 451">1. Clean measuring surfaces.<li data-bbox="643 461 930 925">2. Long press ON/OFF - SET Key to reset Micrometer as per the instructions stated in the manual.
Display blank or blurred.	<ol style="list-style-type: none"><li data-bbox="353 946 622 1099">1. Battery voltage under 2.7v.<li data-bbox="353 1273 622 1436">2. Battery is not set properly.	<ol style="list-style-type: none"><li data-bbox="643 946 930 1252">1. Replace battery as per the instructions stated in the manual.<li data-bbox="643 1273 930 1528">2. Reset battery (Remove it for 3 minutes).



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Warranty

All **FREEMANS** Precision products are guaranteed for 1 year against manufacturing defects. This guarantee does not cover damage due to modifications, misuse or fair wear and tear.

Please Retain this Instruction Manual or Sale Invoice in Order to Claim Your Warranty (If Applicable).

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& PROTRACTOR**



OUTSIDE MICROMETER



DIGITAL OUTSIDE MICROMETER



DIAL INDICATOR



**MAGNETIC
STAND**