



VERNIER CALIPER

DIAL CALIPER



DIGITAL CALIPER



MINI DIGITAL LEVEL
& PROTRACTOR



OUTSIDE MICROMETER



DIGITAL OUTSIDE MICROMETER



DIAL INDICATOR



MAGNETIC
STAND

DIGITAL OUTSIDE MICROMETER





FREEMANS
PRECISION

Warranty

All **FREEMANS** Precision products are warranty for **1 year against manufacturing defects**. This warranty 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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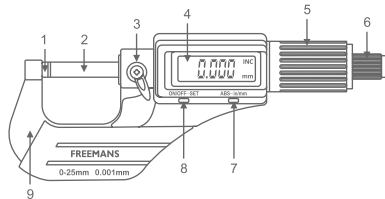


INSTAGRAM



YOUTUBE

Nomenclature



All included in the package



Spherical
Anvil



Spanner



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



Extra
Battery
CR203

- ① Anvil with Carbide Measuring Face
- ② Spindle with Carbide Measuring Face
- ③ Locking Screw
- ④ LCD Display
- ⑤ Friction Drive
- ⑥ Quick Drive
- ⑦ ABS - in/mm Key
- ⑧ ON/OFF - SET Key
- ⑨ 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

Troubleshooting

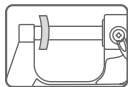
PROBLEM	POSSIBLE CAUSES	SOLUTION
Incorrect measurement reading.	<ol style="list-style-type: none">1. Dirty measuring surfaces.2. Micrometer is in relative measuring mode.	<ol style="list-style-type: none">1. Clean measuring surfaces.2. Long press ON/OFF - SET Key to reset Micrometer as per the instructions stated in the manual.
Display blank or blurred.	<ol style="list-style-type: none">1. Battery voltage under 2.7v.2. Battery is not set properly.	<ol style="list-style-type: none">1. Replace battery as per the instructions stated in the manual.2. Reset battery (Remove it for 3 minutes).

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 0-25mm/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.

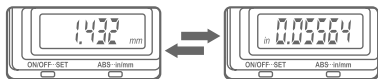
ABS - in/mm Key

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.



LCD Display in Metric

LCD Display in Inch

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.

