



FREEMANS
PRECISION

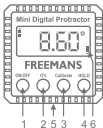
MINI DIGITAL
PROTRACTOR



www.freemansgroup.com

USER
MANUAL

Nomenclature



- 1 Power ON/OFF
- 2 Unit Conversion (%/°)
- 3 Calibrate
- 4 HOLD Measurement
- 5 Magnetic Measuring Surface
- 6 Directional Arrows

Technical Specifications

Measuring Range	4 x 90°
Resolution	0.1° / 0.01%
Accuracy	±0.3°/±0.5%
Battery Type	3V CR2032 x 3
Working Temperature	0°C - 40°C
Relative Humidity	40% - 80%
Dimensions	2" x 2" x 1"

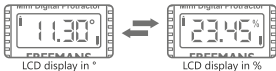
Buttons

1) ON/OFF

- Short press ON/OFF to switch power on.
- Long press ON/OFF for 3-5 seconds to switch power off.

2) 0%

Short press 0% to toggle between degree (xx.xx°) and percentage (yy.yy%) measurement readings.



3) Calibrate

Place the Mini Digital Protractor's measuring surface on a steady, smooth, horizontal 180° surface. Short press Calibrate to set the display to 0.00°.

Buttons

4) HOLD

Short press HOLD in order to freeze a measurement. The directional arrows will flash while you are in this mode. Short press again to exit HOLD mode.

Functions

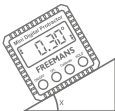
1) Standard Measurement

Press the ON/OFF button to switch your Mini Digital Protractor on and place it on the surface to be measured. The Protractor will begin to display measurement readings immediately. A steady, 180° horizontal surface will give a reading of 0.00°. When two indicating arrows appear on both sides of the display, this implies that the measuring surface is not level. Adjust the protractor in the direction opposite to the arrows; the arrows will disappear once the surface is level.

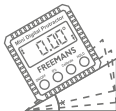
Functions

2) Relative Angle Measurement

- a) Place the Mini Digital Protractor's measuring surface on the angle you want to set as the reference angle. Short press the Calibrate button to set the reference angle to 0.00° . You can now measure the desired angle relative to your reference angle.
- b) Long press the Calibrate button for 3 to 5 seconds to exit Relative Angle Measurement mode.



Set New Reference Angle



Measure Relative to New Angle

Functions

3) Upright Display

The Mini Digital Protractor's LCD display automatically reverses to give an upright view of measurement readings.

4) Automatic Shutdown

To save power, automatic shutdown will be triggered if no buttons are pressed for 3 minutes.

Maintenance Instructions

- 1) Do not clean this precision unit with any organic solvents. Keep it away and protect it from water and corrosives. In order to maintain its accuracy, ensure you periodically wipe any dirt off with a soft cloth.
- 2) Take extra care not to damage the working surface of your Mini Digital Protractor. The device should be picked up and put down with extra care.

Maintenance Instructions _____

- 3) If the Mini Digital Protractor will not be used for a while, it is preferable to take out the batteries and store them separately. This will prevent any battery leakage.
- 4) Keep this unit indoors in -30°C to $+65^{\circ}\text{C}$ and relative humidity $<90\%$.

Battery Replacement _____

- 1) When the power icon appears, it is time to change the battery. The device can no longer be used for measuring until the battery is changed.
- 2) Turn your Mini Digital Protractor over to locate the battery drawer. Use a screwdriver or a coin to open the drawer and replace the old batteries with three new 3V batteries of Cr2032.



FREEMANS
PRECISION

Warranty

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

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

Contact us:



FMI Limited (**FREEMANS**) – G.T. Road, Doraha
Ludhiana-141421 Punjab, India



www.freemansgroup.com



Customercare@freemansgroup.com



Phone Number : +91-124-418-5950



FREEMANS

PRECISION



MINI DIGITAL LEVEL
& PROTRACTOR



MAGNETIC
STAND



DIAL
INDICATOR

Follow us on



 FACEBOOK



 INSTAGRAM



 YOUTUBE



FREEMANS

PRECISION



VERNIER CALIPER



DIAL CALIPER



DIGITAL CALIPER



OUTSIDE MICROMETER



DIGITAL OUTSIDE MICROMETER