

Technical Specification of Digital Screw Gauge

1. Scope

Supply and delivery of Digital Screw Gauge suitable for precise measurement of external dimensions, thickness, diameter, and length of small components for industrial, laboratory, testing, and inspection purposes.

The instrument shall be robust, portable, easy to operate, and suitable for accurate measurement in workshop as well as laboratory conditions. The frame shall be made of hardened steel, stainless steel, or any other rigid material to ensure dimensional stability and long service life.

2. Technical Specifications

Sl. No.	Parameter	Specification
1.	Measuring Range	0-25 mm / 0-1 inch or better.
2.	Resolution / Least Count	0.001 mm / 0.00005 inch or better.
3.	Accuracy	±0.002 mm or better.
4.	Display	Large, clear LCD / LED digital display for easy reading with backlight for low-light operation
5.	Unit Conversion	Facility for metric / imperial conversion, i.e., mm / inch
6.	Material of Construction	Frame, spindle, and anvil shall be made of hardened steel, stainless steel, or any other rigid corrosion-resistant material
7.	Measuring Faces	Carbide-tipped measuring faces shall be provided for wear resistance and long-term accuracy
8.	Measuring Mechanism	Ratchet stop shall be provided to ensure uniform measuring force
9.	Zero Setting	Zero-setting facility shall be available at any position
11.	Data Hold Function	Data hold facility shall be provided
12.	Auto Power Off	Automatic power-off facility shall be available to save battery life
14.	Ingress Protection	IP67 or better
15.	Power Supply	Preferably SR44/LR44 1.5 V or CR2032 3 V Lithium battery
17.	Operating Temperature	Approximately -4°C to 50°C or better
18.	Accessories	Battery, carrying case/protective box, operating manual, reference gauge block for calibration and any other required accessories

3. Calibration:

Certificate of calibration shall have to be supplied along with instrument from a NABL accredited laboratory/Govt. Test House. However, the bidder shall be responsible for providing periodic calibration support for at least 5 years from the date of supply. Periodic calibration shall preferably be carried out on-site. Where on-site calibration is not possible, the instrument shall be returned within 7 days from the date of collection of the instrument and an alternate instrument (having same model or higher version) shall be supplied at the time of collecting the instrument for calibration.

4. Guarantee:

The instrument shall have guarantee of 5 years from the date of receipt of the instrument.

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