

Technical Specification of Digital Vernier Slide Caliper

1. Scope

Supply and delivery of Digital Vernier Slide Caliper suitable for precise measurement of length, external diameter, internal diameter, depth & step dimensions for industrial, workshop, laboratory, inspection and quality-control applications.

The instrument shall be made of hardened stainless steel or equivalent corrosion-resistant rigid metal construction, with smooth sliding movement, clear digital display, zero-setting facility. The caliper shall be supplied complete with battery, protective storage case, calibration certificate and all accessories required for satisfactory operation.

2. Technical Specifications

Sl. No.	Parameter	Specification
1.	Instrument Type	Digital Vernier Slide Caliper
2.	Measuring Range	0-300 mm / 0-12 inch
3.	Resolution / Least Count	0.001 mm / 0.00005 inch or better
4.	Accuracy	± 0.002 mm or ± 0.0001 inch or better over full range
5.	Display Type	Large LCD/LED digital display with clear and bright readout with backlight for low-light operation.
6.	Display Unit	mm / inch selectable
7.	Zero Setting	Zero setting facility at any position
8.	Measurement Types	4-way measurement: external, internal, depth and step measurement
9.	Material	Hardened stainless steel body and measuring jaws
10.	Sliding Mechanism	Smooth sliding movement with thumb roller / thumb wheel
11.	Locking Arrangement	Locking screw shall be provided to retain measurement position
12.	Fine Adjustment	Fine adjustment roller / thumb roller for precise positioning preferred
13.	Scale Marking	Main scale with permanent, clear and wear-resistant graduations
14.	Power Supply	Preferably SR44/LR44 1.5 V or CR2032 3 V Lithium battery
15.	Auto Power Off	Automatic power-off facility preferred to save battery
16.	Operating Temperature	Approximately -4°C to 50°C or better
17.	Ingress Protection	Shall be IP67 complied
18.	Storage Case	Supplied in suitable fitted plastic/wooden protective case
19.	Accessories	Battery, carrying case/protective box, operating manual, 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 supplier shall be responsible for periodic calibration support for at least 5 years from the date of supply.

4. Guarantee:

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

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