

TECHNICAL SPECIFICATION FOR ULTRASONIC THICKNESS GAUGE
(all the conditions should be met)

Key Features:

- The gauge should be capable of measuring thickness of metals and their alloys, plastics, ceramics, and composites etc.
- The gauge should have wide thickness measurement range from 0.1 to 500 mm.

Mandatory Technical specifications:

Parameters	Values or Notes
Materials to be tested	Metals, Alloys, Plastics, Ceramics and Composites, etc.
Operating Temperature	Room Temperature
Thickness Measurement Range	0.1mm – 500 mm
Measurement features	<ol style="list-style-type: none"> 1. Continuous measurement 2. Minimum and Maximum modes 3. Differential mode 4. Thickness reduction rate
Resolution/ Least Count	0.01 mm or better
Power Supply	AA Battery with provision for USB power supply as well
Display	Liquid Crystal Display (LCD). Results to be displayed with Full wave and Half wave waveform options.
Standards	EN15317
Case Requirements	Water resistant, Impact resistant with connectors sealed properly
Transduce Probe Frequency Range	0.5 MHz – 30 MHz
Transducer Probe Requirements	Corrosion resistant, Impact resistant
Transducer Cables	Waterproof, Heavy Duty and well insulated.
Optional Accessories	Provision for USB 2.0 and external Micro SD memory card
Other important points	<ol style="list-style-type: none"> 1. Software compatibility with transducer in the specified frequency range must be ensured 2. Preferable if User’s Manual is provided in CD format. 3. Display language and Keypad in English
Warranty Period	Entire Gauge along with all associated components should be warranted for 12 months from the date of supply against all design, material and manufacturing defects.

General Instructions

1. Quotation should contain item wise price for each item of our enquiry. (Detailed cost breakup of each item viz. Equipment cost, conversion cost, testing cost, any other charges wherever applicable).
2. The quotations should be valid for a minimum of 30 days from the due date.
3. Other applicable levies if any to be specified separately like, insurance, transportation, packaging & forwarding etc. for the total supply.
4. The party should have a well-equipped authorized service and support center in India.
5. Suppliers shall enclose the complete product sheet of the equipment along with its compliance/calibration certificate.
6. Offer received shall confirm the compliance to our technical requirement
7. All the suppliers should prove the technical compliance features before the purchaser. .
8. The supplier shall indicate time required for procurement, delivery period and other duration like time required for installation very clearly.
9. Detailed breakup of overall cost should be clearly specified. Overall cost will be compared and should include packaging, forwarding and safe delivery to IITM.
10. A detailed compliance statement needs to be provided by vendors clearly specifying COMPLY/NON COMPLY with remarks of all of the points mentioned in this technical specification document.
11. IIT Madras is exempted from payment of import IGST and is eligible for concessional rate of customs duty. Necessary certificates will be issued accordingly at the time of clearance
12. All manuals in English language shall be supplied. All the necessary instruction, detailed wiring and circuit diagrams shall be supplied.
13. A minimum of 12 months warranty period should be given form the date of installation.