

Technical Specification for Electronic Level

Application: Electronic level is used for measurement of Straightness, Flatness for surfaces.

SI No.	Description	CMTI Specification	Remarks	Vendor's Specs
1.	Instrument Type (Model)	Electronic Level (Single Head)	Essential	
2.	Type	Digital	Essential	
3.	Sensitivity (Resolution)	0.2 arc Sec or finer	Essential	
4.	Measuring Range	± 2000 arc sec or more	Essential	
5.	Units of measurement	arc sec / mm/m	Specify	
6.	Repeatability	0.4 arc Sec or finer	Specify	
7.	Linear Error	A. for central 100 arc sec, Error : ±2 arc sec or finer	Specify	
		B. over full range, Error: 1 % of measured value or finer		
8.	Length of Base	100 / 125 / 150 mm	Specify	
9.	Settling Time	Less than 5 sec	Specify	
10.	Power Supply	External power with DC adaptor / with Rechargeable batteries	Specify	
11.	Operating Temperature	0-40°C	Specify	
12.	Test Certificate	Instrument is to be supplied with calibration certificate from an	Essential	

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		Accreditation lab or from any NMI laboratory		
13.	Service Support	Service support with spare parts availability for a period of min Five years or more	specify	
14.	Acceptance Criteria	Should meet all requirements of specifications satisfactorily. Final acceptance is based on acceptance tests conducted at CMTI, Regional Centre Rajkot.	specify	
15.	Supply and installation	Supply and Installation should be done at CMTI Regional Centre, Rajkot by the trained engineers.	specify	
16.	Training on Operation,	Training on Operation, Application and Maintenance of the equipment to be provided for about 1 man-day at CMTI Regional Centre, Rajkot, Gujarat.	specify	
17.	Operation manual	Operation & Maintenance Manuals in English (1 hard copies + 1 soft copy on CD ROM)	specify	
18.	Warranty	Warranty of the equipment should have min 12 months including material and labor from the date of installation, commissioning and acceptance at CMTI Rajkot.	specify	