

(PREVIEW)

Indian Standard**ac WATTHOUR METERS, CLASS 0.5, 1 AND 2 —
SPECIFICATION****1 SCOPE**

1.1 This standard applies only to induction type watthour meters of accuracy Class 0.5, 1 and 2, for the measurement of alternating current electrical active energy.

1.2 It applies to the assembly of meters and accessories, including current transformers, when enclosed in the meter case. It does not apply to maximum demand indicators which is covered by IS 8530.

1.3 It does not apply to any kind of measuring devices such as those used for telemetering electrical energy covered by IS 14451 (Part 1).

1.4 This standard applies to multi-rate meters, but does not apply to other special types of meters (for example, excess consumption meters), or to meters used for testing purposes covered by IS 11426.

1.5 It does not apply to watthour meters where the voltage across the connection terminals exceeds 600 V (line to line voltage for meters for polyphase systems).

NOTE — For portable meters and meters for outdoor use, additional requirements may be necessary.

2 REFERENCES

2.1 The Indian Standards listed in Annex B are necessary adjuncts to this standard.

ANNEX B

(Clause 2.1)

LIST OF REFERRED INDIAN STANDARDS

<i>IS No.</i>	<i>Title</i>
1401:1970	Accessibility test probes (<i>first revision</i>)
8530:1977	Maximum demand indicators, Class 1
9000 (Part 7/Sec 1): 1979	Basic environmental testing procedures for electronic and electrical items: Part 7 Impact test, Section 1 Shock

900 (Part 8): 1981	Basic environmental testing procedures for electronic and electrical items: Part 8 Vibration (sinusoidal) test
9792 (Part 1):1987	Guide for testing, calibration and maintenance of AC electricity meters: Part 1 Single phase whole current watt-hour meters, Class 2.0 (<i>first revision</i>)
11000(Part 1/ Sec 1): 1988	Fire hazard testing: Part 1 Guidance for the preparation of requirements and test specifications for assessing fire hazard of electronic and electrical items, Section 1 General guidance
11000(Part 1/Sec2): 1988	Fire hazard testing: Part 1 Guidance for preparation of requirements and test specifications for assessing fire hazard of electronic and electrical items, Section 2 Guidance for electronic items
11426:1985	Specification for alternating current precision kilowatt-hour meters of Class 0.5 for testing purposes
11731 (Part 1):1986	Methods of test for determination of flammability of solid electrical insulating materials when exposed to an igniting source: Part 1 Horizontal specimen method
12063:1987	Classification of degrees of protection provided by enclosures of electrical equipment.
12346:1999	Testing equipment for ac electrical energy meters (<i>first revision</i>)