



ANSI/NEMA C12.20-2002

American National Standard for Electricity Meters 0.2 and 0.5 Accuracy Class



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ANSI C12.20-2002
Revision of
ANSI C12.20-1998

American National Standard

**For Electricity Meters—
0.2 and 0.5 Accuracy Classes**

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Foreword (This Foreword is not part of American National Standard C12.20-2002.)

This American National Standard establishes acceptable performance criteria for electricity meters. Accuracy class designations, current class designations, voltage and frequency ratings, test current values, service connection arrangements, pertinent dimensions, form designations, and environmental tests are covered.

The existing C12.20 Standard has been revised with the intent to bring it up to date in an industry that is changing dramatically, due to both technology and regulatory matters. This American National Standard establishes acceptable performance criteria for electricity meters.

The existing standard was broadened to include class 2 meters. Most meter specifications have been retained from the previous edition without major changes.

Suggestions for improvement to this standard are welcome. They should be sent to:

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This standard was processed and approved for submittal to ANSI by Accredited Standards Committee for Electricity Metering, C12. At the time the committee approved this standard, the C12 Committee had the following members:

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For Electricity Meters— 0.2 and 0.5 Accuracy Classes

1 Scope

This standard establishes the physical aspects and acceptable performance criteria for 0.2 and 0.5 accuracy class electricity meters meeting Blondel's Theorem. Where differences exist between the requirements of this Standard and C12.1 and C12.10, the requirements of this Standard shall prevail.

2 Definitions

See clause 2 of ANSI C12.1-2001.

3 References

ANSI C12.10, *American National Standard for Physical Aspects of Watthour Meters*.

ANSI C12.1, *American National Standard for Electric Meters, Code for Electricity Metering*.

If the date of the referenced document is not shown, the latest published version of the document applies.

4 Requirements

4.1 Mounting

Mounting arrangements may include detachable socket, type "S," bottom-connected, type "A," or any other arrangement agreed upon between the manufacturer and user.

4.2 Voltage and frequency

Typical voltage and frequency ratings are 120, 240, 277, and 480 volts with a frequency rating of 60 Hz.

4.3 Current classes and test amperes

The current classes and test amperes shall be as listed in Table 1.

Table 1 – Current classes and test amperes

Current Class	Test Amperes
2	0.25
10	2.5
20	2.5
100	15
200	30
320	50

NOTE—Other values of test amperes may be used as recommended by the manufacturer.