

American Electric Power

Customer Owned Current Transformer Enclosures Specifications

Customer-Owned Current Transformer Enclosures used in AEP's service territories shall meet the requirements listed below and shall be produced by one of the approved Manufacturers on the approved Manufacturers List at the end of this document. It shall be the Customer's responsibility to maintain Customer-provided/own meter enclosures.

Enclosure Construction

- In non-corrosive areas, steel enclosures may be used. For Corrosive areas see below.
- Steel enclosures shall be a minimum of G-90 galvanized steel.
- All edges shall be smooth after forming. Enclosure shall be painted after fabrication. Finish coat shall be minimum of 2 mils thickness and provide a tough, non-chalking weather resistant finish.
- Construction shall be in accordance with ANSI/UL50.
- Outdoor enclosures shall be rated Type 3R.
- Current transformer enclosure shall be fitted with hinged door(s) and sealing shall be provided by minimum stainless-steel latch and rivet with provision for 3/8-inch padlock and/or ribbon seal.
- **The inside back of enclosure shall be entirely covered by 3/4 inch treated plywood, or suitable mounting brackets may be provided.**
- A grounding lug shall be provided to ground the enclosure.
- Current transformer enclosures with keyed doors shall not be permitted.

Protection

- Enclosures shall:
 - Be of a design to protect the public against accidental contact with electrical equipment.
 - Guard against unauthorized use of electric service.
 - Not be openable without either breaking the seal or visibly damaging the enclosure.

Labeling/Listing

- **All meter sockets shall be UL or ETL Listed and Labeled.**
UL: Underwriters Laboratories Listed and Labeled or
ETL: Electrical Testing Laboratories Listed and Labeled.

Corrosive Environments

Aluminum- or fiber-reinforced polyester enclosures must be used in corrosive areas. Corrosive areas are installations within 30 miles of the Gulf of Mexico coast and any other area where high moisture or chemical exposure may exist such as chemical plants or water treatment plants.

- Enclosure construction shall be in accordance with ANSI/UL50.
- Outdoor enclosures shall be rated Type 3R.
- Current transformer enclosure shall be fitted with hinged door(s) and sealing shall be provided by high strength stainless steel latch with provision for 3/8-inch padlock and/or ribbon seal.
- Exposed hinges and hardware shall be minimum 316-grade stainless steel or better.
- Other methods of sealing may be acceptable but must be approved by AEP prior to being utilized.
- The inside back of enclosure shall be entirely covered with back plate, or suitable mounting brackets may be provided.
- Enclosure ventilator required. A grounding lug shall be provided to ground the enclosure.

For more information and drawing illustration see pages 34-38, please see the Meter and Service Guide (See page 2 for links)

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Meter Site link:

<https://www.aepnationalcustomers.com/business/builders/>
<https://www.aepnationalcustomers.com/business/builders/new-home>
<https://www.aepnationalcustomers.com/business/builders/requirements>
<https://www.aepnationalcustomers.com/account/service/modify/business>
<https://www.aepnationalcustomers.com/account/service/modify/home>

Approved Manufacturers:

Company		Size
Austin Enclosures	1-800-288-2851	36 x 36 x 12 48 x 48 x 12
B-Line by Eaton	1-800-851-7415	36 x 36 x 12 48 x 48 x 12 60 x 60 x 15
Brooks Utility Products	1-888-687-3008	36 x 36 x 13 48 x 48 x 13 60 x 60 x 15
Carlson	1-800-322-7566	40 x 40 x 12
Hoffman	1-763-421-2240	36 x 36 x 12 48 x 48 x 12 60 x 60 x 15
Lake Shore Electric	440-232-0200	36 x 36 x 12 48 x 48 x 12 60 x 60 x 15
Milbank Manufacturing Company	1-816-483-5314	36 x 36 x 12 48 x 48 x 12 60 x 60 x 15
Milbank Manufacturing Company	1-816-483-5314	36 x 36 x 12 48 x 48 x 12 60 x 60 x 15
The Durham Company		36 x 36 x 12 48 x 48 x 12
Unity Manufacturing	1-972-272-9502 or 1-800-657-6100	36 x 36 x 12 48 x 48 x 12 60 x 60 x 15
Wiegmann Company	1-618-539-3193	36 x 36 x 12 48 x 48 x 16