American Electric Power
Customer-Owned Meter Socket Specifications

Customer-owned meter sockets 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. Where *socket* part number series are specified in these Lists, only parts within the listed series which meet listed requirements are approved by AEP for use. It shall be the Customer's responsibility to maintain Customer-provided/owned meter enclosures.

Enclosure Construction

- 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 a 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. Mounting bosses shall provide 0.125-inch minimum air space between back of the socket and the mounting surface.
- Meter socket sealing shall be provided by *minimum* 304 stainless steel latch and rivet with provision for 3/8-inch padlock and/or ribbon seal.

Protection

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

Socket Jaws

- Block assemblies shall be replaceable from the front.
- Current carrying socket jaws shall be reinforced and have meter blade guides.
- Socket jaws shall be tin\zinc plated, capable of carrying full rated (continuous) current and withstand the mechanical and heat rise requirements of ANSI/UL 414.

Terminal Connectors

- Terminal connectors shall be suitable for use with aluminum and copper conductors.
- Connectors shall be tin\zinc plated and capable of carrying full rated (continuous) current and withstand the mechanical and heat rise requirements of ANSI/UL 486B.

Labeling/Listing

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

Meter Sockets/Terminals

- All meter sockets, multi-gang sockets, and meter pedestals shall be ringless style.
- All sockets shall have a double lay-in for the neutral connection.
- Meter sockets must have some type of bypass:
    - Bypass horns for utilities use for manual bypass using jumper cables.
    - Manually operated jaw release bypass. These shall be rated for 100% of the meter socket current rating.
- 200-amp underground sockets shall have one set of concentric knockouts in bottom left for 3-inch conduit and be of the side wire/bused design for straight-in wiring.
- The left side will be for the line side and the right load side.
- 100–125-amp meter sockets are prohibited for use on underground service in AEP East.
- 100–125-amp meter sockets are prohibited for use in AEP West, which serves the states of Texas, Oklahoma, Arkansas, and Louisiana.

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- Socket/breaker combinations or multi-gang polyphase sockets shall be approved by local supervision.
- For 4-terminal meter sockets:
  - 100- amp, 200-amp 4-terminal meter sockets shall have provisions for a 5th terminal.
  - When a 5th terminal is required, it shall be installed in the 9 o'clock position and securely tied to the neutral. Refer to the Meter & Service Guide for 5th terminal socket requirements.
  - 200-amp 4-terminal **Commercial Meter sockets** shall have a good quality jaw release manual operated bypass which is rated for 100% of the meter socket current rating.
- *5-terminal meter sockets* shall have the fifth terminal factory installed in the 6 o'clock position.
- 200-amp 5- and 7- terminal and *all* 320-amp meter sockets shall have a good quality jaw release manual operated bypass rated for 100% of the meter socket current rating.

Meter Socket/Main Combinations

- Meter socket/main combinations shall have sockets of ringless style, shall be approved by local supervision, and may only be used on residential sites.

Meter Socket/Manual Transfer Switch Combinations

- Meter socket/manual transfer switch combinations shall have sockets of ringless style, shall be approved by local supervision, and may only be used on residential sites.
- The transfer switch shall be break-before-make in function and shall be rated 100% capacity on continuous duty.

Meter Socket/Load Center Combinations

- Meter socket/load center combinations shall have sockets of ringless style, shall be approved by local supervision, and may only be used on residential sites.

Multi-Gang Meter Socket/Breaker Combination Centers

- In AEP Service Territory, meter sockets used on a commercial\industrial customer shall have a lever operated by-pass device for three-phase and single-phase services. For further information, see Section 8.2 of Meter & Service Guide 2025, revision 1.0. For drawings reference, refer to Meter & Service Guide Figures M.S._F001, M.S._F002, M.S._F003, M.S._F006, and M.S._F008.
- Minimum 125A block rating required for 100-amp meter socket. Minimum rated 22KAIC standard required. All sockets shall be ringless.
- Barrels lock provision, 7/8 inch, required on each cover.

Meter Site Links

- 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

Corrosive Environments

Corrosive areas are installations within 30 miles of the Texas Gulf of Mexico coast and any other area where high moisture or chemical exposure may exist such as chemical plants or water treatment plants.

- Enclosures in corrosive areas shall:
  - Be of aluminum construction,
  - Have bottom front lip to be continuous fold up with slot cut for stainless steel hasp,
  - Have latch, rivet, hasp, and exposed hardware of minimum 316 series stainless steel, and
  - Have a minimum of five welds on the back and three welds on the side, top, and bottom.

Additional Notes:

- AEP does not support the use of K-base meter bases.

- AEP does not support the use of anti-inversion feature on 320-amp meter sockets.

AEP accepted and approved Meter sockets, Meter/Main combinations, and any other equipment as specified above which meet the above requirements are only accepted from the following manufacturers:

Approved Manufacturers – Meter Sockets

ABB US
Brooks Utility Company
Durham Company
Eaton Corporation
Leviton
Milbank Electrical Products
Midwest
Ronk
Schneider Electric US
Square D
Siemens
Talon

Approved Manufacturers – Meter Socket/Main Combinations

Name	Additional Info
Siemens/Talon	
Milbank	
Leviton	
Midwest	
Murray (Siemens)	
Square D	
General Electric	
Cutler Hammer (Eaton)	Horn bypass kit required MBHBP kit.
B-LINE	Horn bypass kit required EHB125: 125/150A EHB200:200/320

Approved Manufacturers – Meter Socket/Manual Transfer Switch Combinations

Ronk				
USE	**SERIES**	**NAME**	**RATING**	**BYPASS**
IN/OUTDOOR	7215MSL-*	Meter-Rite	200A	LEVER
IN/OUTDOOR	7215MSH-*	Meter-Rite	200A	HORN

Approved Manufacturers – Meter Socket/Load Center Combinations

ABB				
USE	**SERIES**	**NAME**	**RATING**	**BYPASS**
IN/OUTDOOR	TSMR2020CSCU	PowerMark	200A	HORN

Approved Manufacturers – Multi-Gang Meter Socket/Breaker Combinations

Eaton Cutler Hammer					
USE	**# POS**	**SERIES**	**NAME**	**RATING**	**BYPASS**
IN/OUTDOOR	2 - 6	1MP	Meter Packs	125-200A/POS	HORN
IN/OUTDOOR	3 - 5	1MM	MODULAR MTR'G	125A/POS	HORN
IN/OUTDOOR	3 - 4	1MM	MODULAR MTR'G	200A/POS	HORN
IN/OUTDOOR	3 - 5	3MM	MODULAR MTR'G	125A/POS	HORN
IN/OUTDOOR	3 - 4	3MM	MODULAR MTR'G	200A/POS	HORN
IN/OUTDOOR	1 - 4	35MM/37MM	COMM'L-STACK	200A/320A/POS	LEVER

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SIEMENS/TALON					
USE	**# POS**	**SERIES**	**NAME**	**RATING**	**BYPASS**
OUTDOOR	2 – 6	WMM/WMLxx	MODULAR METERING	125A/200A/POS	HORN
		xxxRJB			
OUTDOOR	2 – 6	WPxxxxRJB	UNI-PAK	125A/200A/POS	HORN
		WPLxxxxRJ			LEVER
		WTGxxxxRJB			HORN
		WTGLxxxxRJ			LEVER
SQUARE D					
USE	**# POS**	**SERIES**	**NAME**	**RATING**	**BYPASS**
IN/OUTDOOR	1 – 4	EZML-7	EZ METER PAK	200A/POS	LEVER
IN/OUTDOOR	1	C125RB	CSED	125A/POS	HORN
IN/OUTDOOR	3-6	EZMH	EZ METER PAK	125A/POS	HORN
IN/OUTDOOR	3-5	EZMH	EZ METER PAK	200A/POS	HORN
IN/OUTDOOR	2 – 6	MP	METER PAK	125-200A/POS	LEVER
Milbank					
USE	**# POS**	**SERIES**	**NAME**	**RATING**	**BYPASS**
OUTDOOR	2-6	U5902-BLG U5906-BLG	Meter Pack	125A/POS	HORN
OUTDOOR	2-6	U5882-BLG U5886-BLG	Meter Pack	200A/POS	HORN
OUTDOOR	2-6	U5972-XT-LIS-BLG	Meter Pack	200A/POS	LEVER
ABB					
USE	**# POS**	**SERIES**	**NAME**	**RATING**	**BYPASS**
OUTDOOR	2-6	RMS (ReliaMod Meter Stack Modules)	Meter Pack	125A/POS	HORN
OUTDOOR	2-5	RMS	Meter Pack	200A/POS	HORN
OUTDOOR	1-4	RMS	Meter Pack	225A/POS	LEVER
OUTDOOR	1-2	RMS	Meter Pack	400A/POS	LEVER