

CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT
EQUIPMENT SPECIFICATION
FOR
METER,DISTRIBUTION,OH,1PH,125-200A,120V,MODULAR

DATE	PREPARED BY	ISSUANCE/REVISION	APPROVAL
			PROCESS MANAGER/STANDARDS SUPV.
6/01/99	Herman Millican	Issuance	
01/06/00	Carlos F. Tello	Revision	

<i>Reason for Revision</i>	<i>Affected Paragraphs</i>
Complies with AE Electric Utility Design Criteria Manual "Junction Box and Wireway Specifications"	5.14

This specification, until revised or rescinded, shall apply to each future purchase and contract for the commodity described herein.
Retain for future reference.

**CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT
EQUIPMENT SPECIFICATION
FOR
MODULAR METERING EQUIPMENT**

1.0 SCOPE AND CLASSIFICATION

1.1 Scope

The City of Austin Electric Utility Department is hereinafter referred to as Austin Energy (AE), requires qualified manufacturers to supply AE's customers modular metering equipment as listed on AE's Qualified Products List (QPL).

1.2 Classification

1.2.1 No deviation from these specifications shall be allowed. Any item supplied under these specifications, which is not in complete compliance with these specifications, will not be accepted.

1.2.2 All Manufacturers furnishing modular metering equipment under these specifications shall supply at least five percent (5%) of the modular metering equipment market and have at least five (5) years experience in the manufacture and sale of modular metering equipment.

2.0 APPLICABLE SPECIFICATIONS

- 2.1 ANSI C12.7: Watthour Meter Sockets
- 2.3 ANSI/NEMA PB 1: Panelboards
- 2.4 ANSI/NFPA 70: National Electrical Code
- 2.5 NEMA AB 1: Molded Case Circuit Breakers and Molded Case Switches

3.0 FUNCTIONAL REQUIREMENTS

- 3.1 Metering equipment shall be of modular design including an integral bus system and tenant main breaker mounting immediately adjacent to each meter socket.
- 3.2 All components and short circuit ratings shall be UL listed.
- 3.3 Module ampere rating to be either 125 amps or 200 amps.
- 3.4 Each module can be configured to have from two to six meter sockets. If more than six sockets are required, additional modules must be mechanically and electrically bolted together.
- 3.5 All meter sockets shall comply with ANSI C12.7 requirements.

4.0 PERFORMANCE REQUIREMENTS

- 4.1 Each module shall be configured for single-phase or three-phase self-contained service at 120/240 Vac or 120/208 Vac.
- 4.2 200-ampere meter sockets shall be equipped with a by-pass lever that controls the clamping of the meter blades (Jaw release). By-pass current capacity shall be rated at 200 amps continuous.
- 4.3 For five terminal sockets the fifth jaw shall be factory installed. (Fifth jaw kit is unacceptable.)

- 4.4 Modules installed indoors shall have a main breaker that can be secured with a padlock.
- 4.5 Modules that are installed outside and have more than six meter sockets shall have a main breaker that can be secured with a padlock.

5.0 MATERIAL REQUIREMENTS

- 5.1 Enclosure shall be G90 galvanized steel with baked enamel finish suitable for both NEMA Type 1 and Type 3R.
- 5.2 Each meter position shall have individual ringless cover with separate cover for tenant breaker section that can be secured with a padlock and is removable with watt-hour meter sealed in place.
- 5.3 All un-metered current carrying parts shall be barriered and sealable.
- 5.4 Each module shall include cross busses that are self-aligning and self-contained with captive hardware.
- 5.5 Knockouts shall be located on top and bottom of all modules and on lower back of meter modules. Removable plates shall be located on the top.
- 5.6 All meter socket covers shall be ringless and comply with ANSI C12.7 requirements.
- 5.7 All main modules shall have front sealing provisions, factory installed lugs, and be suitable for center or end mounting.
- 5.8 Main breaker modules shall have a factory-installed service disconnect Overcurrent Device (as defined per National Electrical Code, Article 240). Bus bar end caps shall be sealable, have connections internal to enclosure and be shipped with main modules.
- 5.9 All components shall be factory assembled.
- 5.10 All current carrying parts shall be plated bus bars.
- 5.11 All bussing must be complete from main lugs to meter sockets and to circuit breakers using Belleville washers at all bolted joints.
- 5.12 Module shall have factory-installed equipment ground per socket and factory-installed swing away feet.
- 5.13 Module shall be dual rated for indoor and outdoor applications.
- 5.14 For installations where the modular metering assembly is the service point, solderless type connectors (terminal blocks) shall be mountable type and mounted in the module. The solderless type connectors shall be sized to accommodate the Austin Energy's conductors, as determined by the Underground Service Section. Austin Energy shall terminate the City conductors to these connectors. Refer to Austin Energy Utility Criteria Manual revised 09/01/1999, **Junction Box and Wireway Specifications** section.

6.0 SAMPLES, INSPECTION AND TEST REQUIREMENTS

- 6.1 Austin Energy or its designated representative reserves the right to inspect and test modular metering equipment furnished by AE's customer or customer's representative.
- 6.2 The Vendor shall provide the Austin Energy Metering Operations Section at the beginning of each year in the month of January, drawings for all applicable meter sockets regardless of whether revisions have been made to the drawings. Failure to provide these drawings will result in the rejection of the Vendor from the Qualified Products List (QPL).
- 6.3 The Vendor shall provide revised drawings to the Austin Energy Metering Operations Section as soon as the drawings are revised.

