CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT

PURCHASE SPECIFICATION

FOR

SIX TERMINAL, INSTRUMENT TRANSFORMER RATED, SINGLE PHASE METER SOCKET WITH PRE-WIRED TEST SWITCH

<table>
<thead>
<tr>
<th>DATE</th>
<th>PREPARED BY</th>
<th>ISSUANCE/REVISION</th>
<th>APPROVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/30/76</td>
<td></td>
<td>Issuance</td>
<td></td>
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<tr>
<td>04/21/99</td>
<td>Herman Millican</td>
<td>Revision</td>
<td>Brian K. Davison / David Sloan</td>
</tr>
<tr>
<td>07/13/2010</td>
<td>Carlos Tello</td>
<td>Revision</td>
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<tr>
<td>03/10/2011</td>
<td>Carlos Tello</td>
<td>Revision</td>
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<tr>
<td>05/24/2011</td>
<td>Carlos Tello</td>
<td>Revision</td>
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**REASON FOR REVISION**

- Add Pre-wired test switch
- Add barcode requirement
- Remove barcode requirement
- Remove Aluminum or

**AFFECTED PARAGRAPHS**

- All
- 5.1.8, Attachment 1, Table 1
- 5.1.8, Attachment 1, Table 1
- 5.1.3

This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein. Retain for future reference.
CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT
PURCHASE SPECIFICATION
FOR
SIX TERMINAL, INSTRUMENT TRANSFORMER RATED, SINGLE PHASE METER
SOCKET WITH PRE-WIRED TEST SWITCH

1.0 SCOPE & CLASSIFICATIONS

1.1 This specification covers the classification, applicable standards, functional requirements, wiring, and
performance requirements of six terminal, transformer rated, single-phase meter sockets with pre-wired
test switches.

1.2 No deviation from this specification on the part of the bidder will be allowed. Any items supplied under
this specification not in compliance with this specification shall be unacceptable.

2.0 APPLICABLE SPECIFICATIONS

2.1 The equipment furnished under this specification shall be manufactured and tested in accordance with
current ASTM, NEMA and ANSI (C12.7 - Requirements for Watthour Meter Sockets and C12.9 - Test
Switches for Transformer Rated Meters).

3.0 FUNCTIONAL REQUIREMENTS

3.1 The meter enclosures under this specification shall be used to protect metering connections in electric
service installations for transformer rated meters.

4.0 PERFORMANCE REQUIREMENTS

4.1 The meter socket and test switch shall have, at minimal, 20 ampere, 600-volt capacity.

4.2 Test switch shall be wired to meter socket with AWG No. 12 copper (solid or stranded) wire and color
coded in accordance with Section 5.2.2.

4.3 Wiring will be neat with 90-degree bends and tie-wrapped.

5.0 MATERIAL REQUIREMENTS

5.1 Meter Socket

5.1.1 All enclosures shall be 16 gage galvanized steel or 14 gage aluminum with baked on gray
finish with the letters “ALP” indented on the external side of the enclosure with ¼ inch
minimum size letters.

5.1.2 All enclosures shall have insulating materials of rosite, Phenalic, fiberglass, or equivalent
non-tracking material rated 600 volts. (Ceramic material not acceptable.)

5.1.3 Terminals shall be tin plated copper sleeve type connectors compatible with copper lugs and
will accommodate AWG No. 14 through No. 4 wire.

5.1.4 Knockouts shall be concentric. At least one 1", 1 1/4" and 1 1/2" on each side, at bottom, and
at back and 1/4", 1/2" ground at bottom.

5.1.5 All enclosures shall have test switch below meter.

5.1.6 All enclosures shall have a one-piece raintight ringless cover, with latch and approved sealing
means for padlock type seal.

5.1.7 Minimum outside dimensions of the enclosure shall be sufficient to provide ample room for
the distribution of the maximum-size conductors for which the socket is intended.
5.2 Test Switch

5.2.1 Standard test switches shall be six poles.

5.2.2 All test switch arrangements and color coding of handles and wiring shall be as follows:

<table>
<thead>
<tr>
<th>Phase Arrangements</th>
<th>Switch Handle Color Code</th>
<th>Switch Pole No. (Left to Right)</th>
<th>Wiring Color Code Between Switch and Socket</th>
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<tbody>
<tr>
<td>Voltage (AØ)</td>
<td>Orange</td>
<td>1</td>
<td>Orange</td>
</tr>
<tr>
<td>Current (AØ)</td>
<td>Red</td>
<td>2</td>
<td>Red</td>
</tr>
<tr>
<td>Current Return(AØ)</td>
<td>White</td>
<td>3</td>
<td>Red</td>
</tr>
<tr>
<td>Current (BØ)</td>
<td>Black</td>
<td>4</td>
<td>Black</td>
</tr>
<tr>
<td>Current Return(BØ)</td>
<td>White</td>
<td>5</td>
<td>Black</td>
</tr>
<tr>
<td>Voltage (BØ)</td>
<td>Black &amp; White</td>
<td>6</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

5.2.3 All test switches shall have insulating barriers adjacent to the voltage switches. All copper parts will be nickel-plated.

5.2.4 Each double-pole, short-circuiting current switch shall be so designed as to permit the insertion of a test plug.

5.2.5 Test switches shall be provided with wiring terminals for the connection of AWG No. 12 secondary conductors with facilities for attaching test clips provided on the terminals.

5.2.6 Test switchblade hinges shall be held in place by locknuts or pins so arranged that a firm and secure connection would be maintained at any position on the switchblade.

5.2.7 Test switch cover shall be black, made of Lexan or fiberglass, and shall be held in place by cover studs 1/4 x 20. Studs shall have suitable provisions for sealing. When test switch cover is in place, all switches shall be in a closed position and socket cover can be sealed.

6.0 DESIGN DRAWINGS

6.1 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).

6.2 The Vendor shall provide revised drawings to the Austin Energy Metering Operations Section as soon as the drawings are revised.