

CITY OF AUSTIN
PURCHASE SPECIFICATION
FOR
SWITCHES, TEST, TRANSFORMER RATED METERS

| DATE | PREPARED BY | ISSUANCE/REVISION | APPROVAL PROCESS MANAGER/M&ESS MANAGER |
|-------------|--------------------|--------------------------|---|
| 07/12/90 | Arnold Bourland | Issuance | Tom Eaton / Richard C. Dreiss |

| <i>REASON FOR REVISION</i> | <i>AFFECTED PARAGRAPHS</i> |
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This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein.
Retain for future reference.

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PURCHASE SPECIFICATION
FOR
SWITCHES, TEST, TRANSFORMER RATED METERS**

1.0 SCOPE AND CLASSIFICATION

- 1.1 This specification covers the classification, applicable standards, functional requirements and performance requirements of test switches for transformer rated meters.
- 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

The equipment furnished under this specification shall be manufactured and tested in accordance with current ASTM, NEMA and ANSI (C12.9-latest edition) standards for test switches for transformer rated meters.

3.0 FUNCTIONAL REQUIREMENTS

Meter test switches used with transformer rated watt-hour meters in conjunction with instrument transformers.

4.0 PERFORMANCE REQUIREMENTS

4.1 Electrical

- 4.1.1 Voltage: 600 Volt Class
- 4.1.2 Current: 20 Amperes maximum

4.2 Mechanical

All test switches furnished under this specification shall meet mechanical requirements as follows:

4.2.1 Standard test switches shall include the following forms:

- (1) six pole
- (2) ten pole

4.2.2 All test switches shall be color coded with switch arrangements as follows:

- (1) six pole test switch

| | | |
|-----------------|---------------|-----------|
| Voltage: | Orange | (Pole #1) |
| Current: | Red | (Pole #2) |
| Current Return: | White | (Pole #3) |
| Current: | Black | (Pole #4) |
| Current Return: | White | (Pole #5) |
| Voltage: | Black & White | (Pole #6) |

(2) ten pole test switch

| | | |
|--------------------------|---------------|------------|
| Current: | Red | (Pole #1) |
| Current Return: | White | (Pole #2) |
| Voltage: | Orange | (Pole #3) |
| Current: | Black | (Pole #4) |
| Current Return: | White | (Pole #5) |
| Voltage: | Black & White | (Pole #6) |
| Current: | Green | (Pole #7) |
| Current Return: | White | (Pole #8) |
| Voltage: | Blue | (Pole #9) |
| Current Return (Ground): | White | (Pole #10) |

- 4.2.3 All test switches shall have insulating barriers adjacent to the voltage switches. All copper parts will be nickel plated.
- 4.2.4 Each double-pole, short-circuiting current switch shall be so designed as to permit the insertion of a test plug.
- 4.2.5 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.
- 4.2.6 Test switch blade hinges shall be held in place by locknuts or pins so arranged that a firm and secure connection will be maintained at any position on the switch blade.
- 4.2.7 Test switch cover shall be 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 cover is in place, all switches shall be in a closed position.
- 4.2.8 All test switch dimensions for covers, cover studs, mounting holes, switches and switch blades shall conform to ANSI C12.9 standard for test switches for transformer rated meters.