



The Eastern Specialty Company  
Providing Metering equipment since 1904

## Catalog No. 1043

# TESCO Current Transformer Burden Test Set



**CURRENT TRANSFORMER  
BURDEN TEST SET  
CATALOG NO. 1043**



### OPTIONAL EQUIPMENT FOR NO. 1043

**Carrying Case, Cat No. 1046**

- Overall Size: 8 1/2" x 4" x 7 3/8"
- Instrument Compartment: 5 3/8" x 3 5/8" x 7"
- Lead Compartment: 2 1/4" x 3 1/2" x 7"
- Weight: 1 pound

**Test Plug, Cat No. 1077**

- Optional Leads**
- J-35-50C 6 ft. cable with copper clip
  - J-35-50T 6 ft. cable with catalog 1077 test plug

The Catalog 1043 Current Transformer Burden Test Set is a simple and inexpensive means whereby a current transformer installation may be quickly checked for many sources of trouble. The tests are made without interrupting the Customer's service and while the load is on.

The instrument is essentially a multi-range ammeter with a built-in ohmic burden which is normally shunted, but which can be put in series with the meter by pressing a push button.

Extensive precautions have been taken in the design so that there will be a continuous and closed path in the watt-hour meter current circuit at all times, and the secondary of the current transformer will not be opened by accident.

#### Applications:

The Current Transformer Burden Test Set is used for detecting the following sources of trouble in any C.T. installation.

1. Short circuited primary turns on C.T.
2. Short circuited secondary turns on C.T.
3. High resistance joints or connections in the C.T. secondary circuit.
4. Short circuited secondary wiring.
5. Customer tampering.
6. Grounding of normal ungrounded wire.
7. Grounding of secondary winding when mounted on grounded structure.

#### Features:

- Testing is performed without interrupting the customer's service and while the load is on.
- Designed so that the C.T. secondary cannot be opened accidentally.
- Convenient push button for adding burden.
- Current ranges selected such that a half-scale reading on any range will be a full-scale deflection on the next lowest range. Consequently, a current range can be selected which will give at least half-scale deflection.
- Large easy to read panel meter.
- Four current ranges.
- Six ohmic burden values
- Non-conducting molded case.

#### Specifications:

- **Current Ranges:** 1.25, 2.5, 5, 10 amperes
- **Burden Values:** .1, .2, .5, 1.0, 2.0, 4.0 ohms
- At the nominal current of 5 amperes, these ohmic values correspond to 2.5, 5, 12.5, 25, 50 and 100 volt ampere burden, respectively.
- **Rotary Switches:** The rotary switches are of the shorting or "make before break" type to prevent accidental opening of the C.T. secondary.
- **Readability:** The meter is a 2 1/2" panel instrument with a scale of 2 3/16" and a transparent unbreakable plastic cover for easy viewing.
- **Duty Cycle:** The instrument is rated for continuous duty up to the largest current value except for the burden resistors which are rated for intermittent duty.
- **Case:** The instrument is housed in a non-conducting black molded plastic case with white panel markings.
- **Dimensions:** 6 7/8" x 5 1/4" x 3 1/8" high
- **Weight:** 2 3/4 pounds

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