



# New Product Update



Prepared by Tom Lawton, TESCO  
The Eastern Specialty Company

*for the Mid-South Electric Metering Association 2017  
Monday, May 1, 2017 3:00 p.m. Group 4B*

# Products and Services Released Since the Last Mid-South Meter School

- CT Ratio/Burden Tester
- Time-Run Demand Board
- Multi-Purpose Test Station (single-position)
- K-Base Test Board Adapters
- Desktop Meter Station with TWACS Communication
- Training Boards
- RF Meter
- T Seals
- Service Disconnect Adapters
- CT/PT Bus-Bar Safety Protector
- Test Switch Protectors (7-pole)
- Meter Racks
- Consignment Equipment



# CT Ratio/Burden Tester (Catalog No. 1047)

TESCO's new CT Ratio/Burden Tester is a lightweight, portable and highly accurate in-service test set to assist in finding lost revenue by testing the accuracy of your meter circuits. The CT Ratio/Burden Tester can help determine if there are installations errors, loose connections, incorrect ratios, resistance buildup, open CT's, or manufacturers defects. The CT Ratio/Burden Tester measures and displays the primary and secondary current of the CT under test, and the ratio of the currents. All test data is stored in the internal memory and easily uploaded to a PC or bluetooth device.

## Features

- Lightweight, portable & easy-to-use
- Works with any CT, as long as the secondary current is less than 20A
- Internal memory to store test results (up to 1,000 tests)
- Easy pass/fail indicator
- Bluetooth app included
- Auto burden scan
- Demag



# Time-Run Demand Boards

The TESCO Time-Run Demand Board is a customizable three-phase test board that applies potential and current to electric meters via phantom load and has the ability to set time-run intervals for comparison tests against an integrated meter. Incorporating a Shark 100 Power and Energy Meter, the TESCO Time-Run Demand Board provides true three-phase time-run testing and field-like vectors.

## Features

- Time-run testing
- Touch-screen display for setting time-run intervals
- Integrated Shark Meter for energy consumption comparison and to monitor current and potential at each bank of meters
- Zero-insertion-force (ZIF) sockets
- Multi-form
- Closed-link meter testing
- Remote disconnect testing
- Forward and reverse current
- Customized features available upon request



# Multi-Purpose Test Station

## Features

Touchscreen PC interface:

- Customized settings
- Ability to save test sequences & test results
- Meter form & voltage settings
- Power factor settings (50/100%)

Three independent current channels (0-50 Amps/channel)

Single-phase potential (0-480V)

Reference standard for accuracy testing & software options for demand and time-of-use testing

Zero-insertion-force (ZIF) meter socket

Ability to test both electronic and electro-mechanical closed-link meters

TESCO [Optical Pickup \(Catalog No. 1037-STND\)](#) to detect electronic meter pulses

Disk sensor to detect disk rotation on electro-mechanical meters



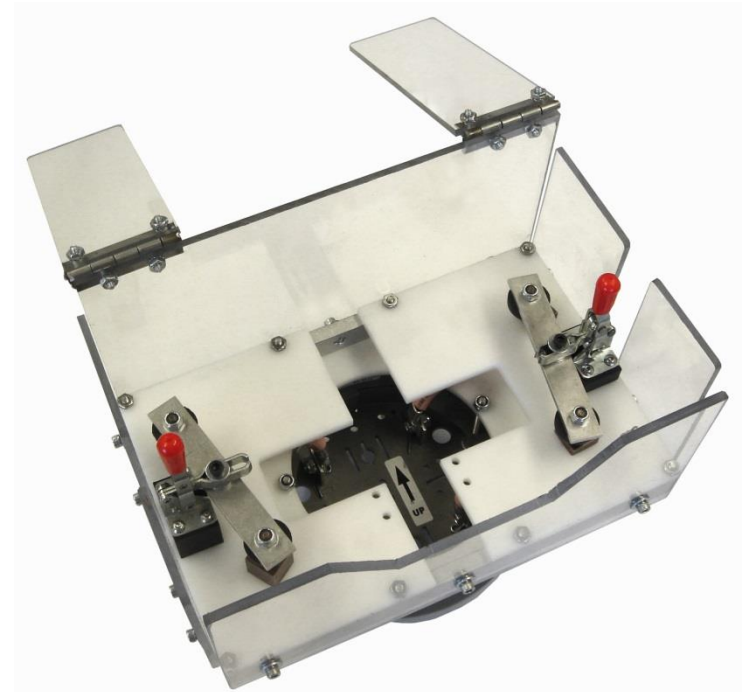
# K-Base Test Board Adapters (Catalog No 1180)

The TESCO K-Base Test Board Adapters allow quick, convenient testing of self-contained K-Base meters on test boards designed for socket type meters. The K-Base Test Board Adapters are designed for single phase (Catalog No. 1180-2) and polyphase (Catalog No. 1180-4).

The K-Base Test Board Adapters are equipped with two clamps located on the front of the adapter, which will secure the meter to the base. The adapter also has an acrylic safety shield to protect the user from any arcing that may occur.

## Features

- Easy-to-use.
- For use on mechanical or solid state meters
- Safety shield around the entire adapter



# Desktop Meter Station w/ TWACS Communication (Catalog No. 2100)

The TESCO Desktop Meter Station has been redesigned and is now compatible with TWACS® AMI Meters. This optional feature will have one set of panel mounted female sheathed banana plug connections and an adapter cable to facilitate TWACS® communications to the meter from the users TWACS® PRTU Module. This gives users the ability to communicate to the TWACS® modules wired either to the L-N or L-L connections on the meter. The TWACS® communication can be turned “off” and “on” with the click of a switch, so that you can test any other type of electric meter in your inventory.



# Training Boards (Catalog No. 1500)

## Features

- **Service Selector Switch**  
120/240V 3-wire service  
120/208V 3-wire service
- **Invert Wiring Switch**  
NORMAL: connects the service power to the LINE side jaws of the meter socket  
INVERT: connects the service power to the LOAD side of the meter socket
- **Back-Feed (2 & 4) Switches**  
These switches will connect the service voltage present at the LINE side jaws to the LOAD side jaws to simulate back-feed to the meter socket
- **Ground Fault (2 & 4) Switches**  
These switches when placed in the FAULT position will connect the meter socket LOAD jaws to ground to simulate a ground fault
- **Load (2 & 4) Switches**  
These switches will add a nominal 0.5A load to the meter socket
- **Miss-Wire Switch**  
This switch will simulate the missing neutral wire at jaw 3 (socket terminal 3) of the socket. Without this connection the meter will not power up. Placing the switch in the MISSING position will open the connection to jaw 3





# RF Meter (Catalog No. 1120)

The TESCO RF Meter combines all the features needed for fast, accurate measurements of electromagnetic fields. This instrument was designed to measure RF, but also has the ability to measure electric and magnetic fields.

## Specifications (For RF Setting)

- **Frequency Range:** 50 MHz - 3000 MHz (3 GHz)
- **Range Resolution:** 1 mW/cm<sup>2</sup> / 0.01 mW/cm<sup>2</sup>
- **Accuracy:** 0.5x to 2x of reading
- **Settings:**
  - A:** Magnetic Field (0 - 100 milligauss range)
  - B:** Magnetic Field (0 - 3 milligauss range)
  - C:** Electric Field
  - RF:** Radio/Microwave (mW/cm<sup>2</sup>)
- **Dimensions:** 5.0 x 2.6 x 2.4 in (129 x 67 x 62 mm)
- **Weight:** 8 oz.
- **Battery:** 9 Volt alkaline (40 hour life) / Low Battery indicator



# "T" Seals (Catalog No. 224)

The TESCO "T" Seal is a locking device for electric meter covers. The "T" Seal can be easily installed and removed without any tools. The curved base is stamped "SEALED", and is scored to fracture if tampered with. The "T" Seals can be customized with up to five letters stamped on flag. Double-sided stamping is also available

## Specifications

### Colors

Gold Anodized (Catalog No. 224-1)

Clear Anodized (Catalog No. 224-2)

Red (Catalog No. 224-3)

Blue (Catalog No. 224-4)

### Material

Aluminum

### Packaging

1,000/Bag



# Service Disconnect Adapter (Catalog No. 254)

TESCO's Service Disconnect Adapter disconnects customer load, while maintaining power to the meter, and tilting the meter to a 45° angle. The meter continues reading and communicating for AMR/AMI operations, while disabling service on the load side.

The TESCO Service Disconnect Adapters are constructed of UV stabilized plastic, fiberglass-reinforced polycarbonate, and have a UL-94-5VA flame rating.

## Specifications

- UV stabilized plastic
- UL 94-5VA flame rating
- Fiberglass reinforced polycarbonate
- 1.5" stand-out dimension
- Plated Copper Jaw Blades



# Safety Protectors

## CT/PT Bus-Bar Safety Protector (Catalog No. 6450)

The TESCO CT/PT Bus-Bar Safety Protector has been developed to assist in the safe disconnect of a hot sequenced current transformer. After service is disconnected, the TESCO CT/PT Bus-Bar Safety Protector is slid over the bus-bar of the load side of the transformer and prevents accidental connection and/or arcing



## 7-Pole Test Switch Protector (Catalog No. 6442)

TESCO's Test Switch Protectors are constructed of clear, flexible PVC with a voltage rating of 2500V. The switch protector will fit any brand of test switch, regardless of manufacturer, from 4 to 7-pole. TESCO can also develop custom designs of this product to meet unusual test switch configurations.



# Meter Racks (Catalog No. 749)

The TESCO Meter Rack can hold up to 72 meters (36 on each side), and is built tough with steel construction, and a 2000 lbs. capacity. For easy mobility, the Meter Cart is equipped with four casters (2 swivel and 2 rigid).

## Specifications

- **Meter Capacity:** 72 (36 per side)
- **Weight Capacity:** 2000 lbs.



# Consignment Equipment

TESCO quite often comes across older equipment, such as meters and meter adapters that are in excellent condition. Some of the equipment has never been used; some has been gently used. We offer this to our utility customers at a huge cost savings compared to buying new.



# Questions and Discussion



**We are working very hard to become “everything but the meter.”  
We want to be the resource you turn to first when you have any  
meter related question or requirement.**

**Tom Lawton**

TESCO – The Eastern Specialty Company  
Bristol, PA

215-688-0298 (cell)  
1-800-762-8211

This presentation can also be found  
on the TESCO web site:

[www.tesco-advent.com](http://www.tesco-advent.com)

