



THE EASTERN SPECIALTY COMPANY

# DESKTOP METER TEST STATION

CAT. 2990

## USE

### *State-of-the-art meter accuracy testing in an affordable desktop configuration!*

Tired of waiting for access to a production test board? Tired of wasting time going to another building to use test equipment? Need flexibility, state-of-the-art performance, and ease of use? If so, then TESCO's revolutionary 2990 Desktop Meter Test Station is the answer to what you need.

The 2990 revolutionizes meter testing by providing full series parallel meter testing in a small, budget-friendly desktop package.

A fully ANSI compliant test board, the 2990 offers complete testing of all meters under the widest range of test conditions. The new waveform generator has all waveforms called out in ANSI C12.20-2015 (pub. 4/2017). All common electromechanical and solid state meters up to 50 amps can be tested with the 2990 using the single voltage and three isolated current sources.

For more than 110 years customers have trusted TESCO for accuracy and reliability. When you think metering, think TESCO.



## FUNCTIONALITY

- Digital Waveform Generator
  - Voltage Drive: 30-350V RMS, 490V PK (line to neutral)
  - Current Drive: 0.01A to 50A RMS, 75A PK
  - Arbitrary harmonically defined waveforms
  - Automatic Generation of all ANSI C12.20-2016 waveforms
- True ZERO insertion force socket with automatic closure on meter insertion
- Powerful multi-core, 32bit processors
- 800x480 color LCD display
- Integrated control keypad
- Ethernet connectivity
- Phase fully adjustable as phase or power factor
- Voltage Setting Accuracy:  $\pm 1.0\%$
- Current Setting Accuracy:  $\pm 1.0\%$
- Fundamental Frequency: 45-65 Hz
- Disconnect testing with supplemental power transformer
- Built in, on voltage, three current reference standard traceable back to NIST
- Measurement Accuracy\*
  - Voltage :  $\pm 0.02\%$
  - Current:  $\pm 0.02\%$
  - Watts:  $\pm 0.04\%$ ,  $\pm 0.02\%$  typical
  - VA:  $\pm 0.04\%$ ,  $\pm 0.02\%$  typical
  - VAR:  $\pm 0.04\%$ ,  $\pm 0.02\%$  typical
  - WHrs:  $\pm 0.04\%$ ,  $\pm 0.02\%$  typical
  - VAHrs:  $\pm 0.04\%$ ,  $\pm 0.02\%$  typical
  - VARHrs:  $\pm 0.04\%$ ,  $\pm 0.02\%$  typical
  - valid for 50 or 60 Hz and currents from 0.2 to 50A
- Simultaneous time and frequency domain measurements
- Meter Forms
  - 1S-6S, 8S-17S, 25S, 26S, 29S, 32S, 35S, 36S, 45S, 46S, 56S, 66S, 76S, 103S, 106S, 109S, 112S, 116S, 125S, 135S, 136S, 145S, 166S
  - Please inquire for adding any other meter forms
- Demand and time-run test capabilities
- Arbitrary harmonically defined waveforms
- Dropped cycle testing
- 1037-DTS Optical P/U
- Power Line Carrier Communication Testing
  - No PRTU or other external equipment are needed to perform PLC communication testing
- Computer control software package to enable full control of the board and test data storage via external PC
- 13.13" x 15.50" x 18.19"
- Approximately 52 pounds
- Power requirements: 120 VAC, 1PH, 10A. Power cord included.
- Options include:
  - A-Base Test Board Adapter
  - 1180 K-Base Test Board Adapter
  - Adapter for calibrating the unit
  - Diamond Support with Calibration Service
  - Stand-alone calibration of the Unit

Contact TESCO today for a quote or for more information at 215.785.2338.





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# DESKTOP METER TEST STATION ACCESSORIES

## ACCESSORIES

Test electromechanical meters with **Cat. 2490 Wedge**. The 2490 Wedge is a new accessory to the 2990 that allows testing of all common electromechanical meters up to 50 amps by tilting the unit to allow continuous rotation.

In addition to the Wedge, the **Cat. 2480 Disk Sensor Arm** is mounted to the unit and can test electromechanical meters with a desk as well as solid state meters via a beam sensor.

Calibration of your 2990 is made easy with TESCO's optional **Cat. 2450-CAL30-DTS Calibration Adapter**. The Calibration Adapter is a socket adapter designed to bring phase A, B, and C current and potentials of a TESCO test board to an external reference standard for calibration of the test board. TESCO can also calibrate your equipment on site or in our state-of-the-art lab. Inquire with your TESCO representative for more information.

With its state-of-the-art, easy to use design, **TESCO's Cat. 1210 Pure Sine Inverter** is ideal for operating your 2990 from your service truck or van.

### Optional Accessories:

- Cat. 2490 Wedge Accessory
- Cat. 2480 Disk Sensor Arm
- Cat. 2450-CAL30-DTS Calibration Adapter
- Cat. 1210 Pure Sine Wave Inverter
- Cat 1183 A-Base Test Board Adapter
- Cat. 1180 K-Base Test Board Adapter



Cat. 2490 Wedge Accessory

Accessories pictured: Above: Cat. 2490 Wedge Accessory; From left to right: Cat. 1210 Pure Sine Wave Inverter; Cat. 1180 K-Base Test Board Adapter; Cat. 1183 A-Base Test Board Adapter; and Cat. 2450-CAL30-DTS Calibration Adapter

