



TESCO METERING



925 Canal Street, Bristol, PA 19007
• 215.228.0500
• tescometering.com

Field Equipment

Catalog No.

FTS-2990

Meter Field Test Station

As the industry standard in meter accuracy and functional testing in a small, convenient package, the **TESCO DTS-2990** is now available in a portable configuration to help solve the challenges of testing meters at the meter site. The new FTS-2990 maintains the same proven reliability and accuracy for testing both self-contained and transformer-rated meters as the standard DTS-2990, but is now available with a rugged case, making it ideal for meter testing in any location.



*Elevating Meter
Accuracy Testing
with a Field-Optimized
Design.*



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The FTS-2990 is a fully ANSI-compliant test board, providing comprehensive testing for meters across a wide range of conditions. Its new waveform generator aligns with ANSI C12.20-2015 (pub 4/2017) standards, incorporating all specified waveforms. This system accommodates testing for solid-state meters with a capacity extending up to 50 amps. Utilizing a single voltage and three isolated current sources, the FTS-2990 ensures thorough and precise testing for an array of meters.

Specifications:

- ◇ 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 C12.20-2015 waveforms
- ◇ True zero insertion force socket with automatic closure on meter insertion
- ◇ Powerful multi-core, 32bit processors
- ◇ 7" high resolution screen
 - Direct sunlight readable
 - Protected screen
- ◇ Integrated control keypad
- ◇ Ethernet connectivity
- ◇ USB-A & USB-B
- ◇ DB9 Port for Optic Interface
- ◇ 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
- ◇ Built in, one 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, 35S, 36S, 45S, 46S, 56S, 66S, 76S, 103S, 106S, 109S, 112S, 116S, 125S, 135S, 136S, 145S, 166S
- ◇ Demand and time-run test capabilities waveforms
- ◇ Dropped cycle testing on request
- ◇ 1037-DTS Optical P/U included.
- ◇ Computer control software package to enable full control of the board and test data storage via external PC
- ◇ Size: 21.2" x 16.0" x 10.6"
- ◇ Approximately 55 lbs.
- ◇ Power requirements: 120-480V AC, 1PH, 2A to 1/2A. Custom power cord included.

Accessories:

- ◇ Cat. 2450-CAL30-DTS Calibration Adapter (A)
- ◇ Cat. 1183 A-Base Test Board Adapter (B)
- ◇ Cat. 1180 K-Base Test Board Adapter (C)

