



TESCO METERING

Reliable Results. Every Meter. Every Time.



925 Canal Street, Bristol, PA 19007

• 215.228.0500

• tescometering.com

Custom Equipment

Catalog No.

MTS 3050

50 Amp Meter Test Board

TESCO's Three Phase Meter Test Board (MTS-3050) TESCO's MTS-3050 is a 50-amp three-phase meter test board designed to meet the exacting requirements of both laboratory testing environments and high-volume production workflows. It supports full functional testing of AMI/AMR meters, meter programming, and detailed diagnostics such as firmware/software checks and communications troubleshooting. With advanced waveform generation, robust metrology, and integrated automation, the MTS-3050 delivers high accuracy and repeatability for both standard and complex test scenarios

FEATURES:

- Three-phase accuracy test board with $\pm 0.04\%$ accuracy (Options available for $\pm 0.02\%$ and $\pm 0.01\%$)
- Current drive: Single range 0.01–50A RMS, 70A peak (standard calibration to 50A)
- Simulates brownout/surge conditions with long-duration load variation
- Harmonic waveform support (ANSI C12.20 and custom waveforms via PC interface)
- Meter power on/off cycling and phasor distortion testing



- Electronically actuated automated meter socket with bypass and meter-in-place detection
- Automatic voltage routing for 40+ meter forms (1S–166S)
- Meter disconnect switch testing with reconnect capability
- Digital waveform generators (per phase)
- Integrated reference standard with $\pm 0.02\%$ voltage/current and $\pm 0.04\%$ WHr accuracy
- PC software interface to configure test sequences, meter elements, and service types
- Export test results with option to interface with your system of record
- Supports IR, radio, and PLC communication testing
- JSON-based protocol available for software control
- Optional accessories: Optical Pickups (Cat. 1037 series), Electromechanical Arm



**Laboratory-Grade
Three-phase Meter
Testing with Advanced
Metrology**



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Product Information Sheet



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PHYSICAL SPECIFICATIONS

- The MTS-3050 meter test system is built up from standard subsystems mounted in a custom table top enclosure.
- MT-14 Table Top Enclosure
- Size: 25.54" W x 25.62" D x 18.6" H
- Weight: 148 lbs.

ELECTRIC POWER

Each unit requires a 120V at 8A or less. Note: These units contain large switching power supplies with high inrush currents

- A minimum of 12 inches should be allowed behind the unit for proper ventilation

EXTERNAL CONNECTIONS

Rear:

- Power inlet (120V IEC connector)
- Ethernet connection to internal network segment

ABOUT TESCO

Since 1904, TESCO has been the trusted partner of electric utilities worldwide, delivering durable, precise, and innovative metering solutions designed for the real-world demands of the field and the laboratory. Our products are engineered and manufactured in the USA and backed by world-class technical expertise and support.

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DISCLAIMER

TESCO Metering reserves the right to modify product designs, specifications, features, and documentation at any time as part of our continuous improvement process. All information is provided "as is" and may change without prior notice. While TESCO® strives for accuracy, completeness, and technical reliability, customers should verify the latest product details before making purchasing or engineering decisions. For confirmation of current specifications or application suitability, please contact TESCO® directly.



Front:

- Main power breaker
- Ethernet connection to internal network segment
- Duplex convenience outlet (2A max)
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ORDERING INFORMATION

Catalog No.: MTS 3050

Warranty: 1 Year (Contact your TESCO Sales Representative to inquire about our Diamond Level Support for extended warranty coverage).