



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

Reliable Results. Every Meter. Every Time.

### Meter Shop Testing

TESCO Knopp Catalog No.

# KCTS-8000XA

## Knopp Extended Range Automatic Current Transformer Testing System



KCTS-8000XA

### 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.

Reliable Results. Every Meter. Every Time.

### 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.



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### PRODUCT INTRODUCTION

The TESCO Knopp Extended Range Automatic Current Transformer Testing System (Type KCTS-8000XA) is designed to measure down to 1% ratio of instrument current transformers having 1 or 5 ampere secondaries and primaries of up to 8000 amperes. The system uses an improved high accuracy multi-range current transformer as a reference standard, true primary current loading transformer, and automated controls to conduct a test. All operator inputs besides hookup of Transformer under Test (TUT) are software controlled and can be integrated to Meter Manager, TESCO Device Manager (TDM) or other system. ANSI standard burdens are included now with active monitoring and adjustment for increased accuracy. The phase angle and ratio errors of the TUT are measured by the built-in and upgraded Knopp Current Transformer Comparator.



*Automatic Transformer Testing System with Traceable Accuracy Down to a 1% Rating Factor*



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The test is completed automatically for increased efficiency and safety allowing for more CT's to be tested, faster, and with increased accuracy to their full extent.

All features are the same as the KCTS-8000X, except the KCTS-8000XA also has the following:

#### Automated Testing

- Autonomously performs testing of CT(s) after physical setup and connection of TUT(s)
- Standardization of testing for greater repeatability and reproducibility

### KEY BENEFITS

#### Traceable Accuracy Down to 1% Rating Factor

- Ability to test beyond 10% and 5% Rating Factor, now with traceability to 1%
- Validate extended range CT's for greater flexibility of metering and superior billing accuracy at customer site.

#### Automated Testing

- Autonomously performs testing of CT(s) after physical setup and connection of TUT(s)
- Standardization of testing for greater repeatability and reproducibility
- Eliminates many sources of operator error.

#### Electronically Compensated Burdens

- Active Impedance and Power Factor compensation to maintain accuracy down to 1% Rating Factor
- Live Burden Measurement displayed on screen and recorded for advanced testing records and test validation.

#### Improved Safety, Self-Check, and Diagnostics

- System can detect errors and point to any issues that may arise from invalid test setup
- Routine self-check discovers errors before causing costly mistakes
- Configurable Interlock safety circuit.

#### Increased Throughput

- Test 4 CTs in series with a single setup, allowing for rapid sequential testing.

#### Demagnetization of CT's

- Demag integrated into system and can be optionally enabled via software to run automatically during test sequences

#### Ergonomic Test Fixturing

- Simplification of setup for more accurate and repeatable tests
- New Buss-bar implementation for reduced heating and easier positioning
- Collective tap integration for ease of ratio selection
- Reduction of required cables.

#### Simplified Servicing

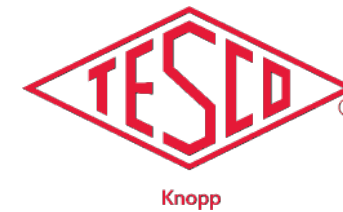
- Advanced diagnostics helps to increase uptime and reduce service time, getting the system back to testing CT's faster
- Advanced diagnostics also assists operators to quickly locate system errors.

#### Meter Manager and TDM Integration

- Automatically capture test results within establish meter database
- Simplify infrastructure overhead
- See all your data in one place with analysis tools
- Backward compatible serial port for integration with existing data capture.

#### New Industry Leading Comparator

- Expansive dynamic range and measurement ability
- Externally mounted design and slimmed form factor improves system ergonomics.



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### INCLUDED ACCESSORIES

- Heavy Duty Bus Bar Cable Kit
- Hardware Kit
- Upgraded Comparator

### DIMENSIONS

Height: 75 1/8" (190.82 cm)

Width: 60" (152.4 cm)

Depth: 35" (89 cm)

Weight: Approximately 1500 lbs (680.4 kg)

