



Knopp

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Reliable Results. Every Meter. Every Time.

## Safety Equipment

Catalog No.

# KCTS-8000X

## Knopp Extended Range Current Transformer Testing System

### PRODUCT INTRODUCTION

The Knopp Extended Range Current Transformer Testing System (Type KCTS-8000X) is a state-of-the-art transformer testing system engineered for superior accuracy and operational efficiency. Leveraging Knopp's renowned precision, the KCTS-8000X expands Knopp's present robust testing capability to allow for testing of CTs down to 1% Rating Factor. Equipped with electronically compensated burdens, the system adjusts for active impedance and power factor to maintain accuracy even at low levels. Real-time burden measurements are displayed and recorded for thorough test validation.

The KCTS-8000X also features an upgraded industry-leading comparator with improved low range accuracy, protective circuitry, motorized control, an RS-232C output port, and now TESCO Device Manager integration to further enhance testing efficiency. With additional features such as transformer demagnetization and a convenient connection kit, the KCTS-8000X offers an advanced, reliable solution for precision testing in metering and billing applications.

### PRODUCT FEATURES

#### ELECTRONICALLY COMPENSATED BURDENS (ACTIVE IMPEDANCE AND POWER FACTOR COMPENSATION):

- Automatically adjusts for impedance and power factor to maintain accuracy even at low rating factors, improving test reliability without manual intervention



## Traceable Accuracy down to 1% Rating Factor

#### LIVE BURDEN MEASUREMENT DISPLAY AND RECORDING:

- Displays real-time burden measurement on-screen and records it for test validation, ensuring comprehensive and accurate test records for future reference.

#### UPGRADED INDUSTRY-LEADING COMPARATOR WITH EXTENDED LOW RANGE:

- Offers a broader measurement range with enhanced precision, allowing for testing across a wide variety of transformer setups, thus improving testing flexibility and efficiency.





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### ROUTINE SYSTEM SELF-TEST:

- Allows for self-calibration checks, helping to extend the time between professional calibrations and ensuring long-term accuracy.

### PROTECTIVE CIRCUITRY FOR ERROR CONDITIONS:

- Prevents damage to the system by automatically shutting off power when incorrect settings, like wrong ratio or polarity, are detected, enhancing safety.

### ZERO START SAFETY FEATURE:

- Ensures that the test current starts from zero, preventing accidental damage to transformers or the testing system and increasing operator safety.

### MOTORIZED CONTROL OF TEST CURRENT WITH AUTOMATIC RUNDOWN:

- Automates test current rundown, speeding up the testing process and minimizing manual effort.

### TDM INTEGRATION:

- Comparator is integrated into TESCO Device Manager for test result recording and new engineering analysis

### RS-232C SERIAL OUTPUT PORT FOR DATA TRANSFER:

- Facilitates the seamless transfer of test data to printers or data collection systems, ensuring efficient reporting and record-keeping.

### DEMAGNETIZATION OF TRANSFORMERS PRIOR TO TESTING:

- Ability to demagnetize transformers before testing, improving test accuracy and reducing the likelihood of erroneous results.

### CONNECTION KIT WITH CABLES FOR EASY TRANSFORMER CONNECTION:

- Simplifies setup by providing the necessary cables for connecting transformers to the testing system, saving time and ensuring compatibility.

