

Knopp Catalog No.

KCTS-8000X

Extended Range TESCO Knopp Current Transformer Testing System



**Traceable Accuracy to
1% Rating Factor
for CTs up to
8000 Amps**

The **Knopp 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.



Knopp

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Made
in the
USA

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Standard Features of the KCTS-8000X Include:

Traceable Accuracy Down to 1% Rating Factor:

- Expands testing range down to 1% while maintaining traceable accuracy, allowing for the validation of a wider variety of CTs and ensuring accurate billing for customers.

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

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.

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.