

Knopp Catalog No.

KCTS-8000XA

Knopp Extended Range Current Transformer Testing System



The Knopp Extended Range 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. All 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. 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
- Eliminates many sources of operator error

**Traceable
Accuracy down to
1% Rating Factor**



Knopp

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Made
in the
USA

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Knopp Extended Range Current Transformer Testing System

Standard Features of the KCTS-8000XA Include:

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