

KVTS-A

Knopp Voltage Automated Transformer Testing System



The Knopp Automated Voltage Transformer Testing System designed to measure the accuracy of instrument transformers having 120-volt secondary's and up to 48,000-volt primaries. The new automated KVTS-A enables increased stability of measurement and includes the control console which contains the control circuitry, digital ANSI standard burdens for increased accuracy, and the Upgraded Knopp Automatic Transformer Comparator.

Some of the features of the KVTS-A are:

- Automated Testing after primary selection and transformer-under-test (TUT) hookup
- Unit to include Integration with TESCO TDM software for seamless control and data collection. TESCO Meter Manager Integration also will be available.
- Voltage Transformer Next Gen Comparator provides minimal measurement time, control over the test, and increased error detection.
- Large front display of comparator provides ease of operation and data input as well as showing results such as test voltage, ratio error (in percent or ratio correction factor), and phase error (in minutes or milliradians).
- Accuracy class for which the (TUT) qualifies is calculated and displayed and output by the Next Gen Comparator.
- Self check configuration allows the system accuracy to be easily verified without the use of an external standard on the 2J4 Test Set.
- Error detection senses unusual error conditions such as wrong ratio or polarity and then automatically removes power from the KVTS-A loading circuitry to protect the KVTS-A, precision transformer, and the TUT.
- Ramping control feature allows for detection of errors prior to testing at full potential.
- Interconnecting cables between the control console and the transformer test set included.
- Digital ANSI Burdens for improved accuracy and stability including W, X, M, Y, Z and ZZ.



Knopp

Knopp Catalog No.

KVTS-A

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Specifications:

Dimensions:

61.5" (156.5 cm) High; 24" (61 cm) Wide; 37" (94cm) Deep for the KVTS console. The 2J4 Transformer set is 36" (91.5 cm) High; 25" (63.5 cm) Wide; 20" (50.8 cm) (Deep)

Weight:

350 lbs. (159.7 kg) (console) and 300 lbs. (transformer test set)

Input Power:

120 VAC, 60 Hz; single phase; 20 amperes maximum

System Accuracy:

Within $\pm 0.025\%$ on ratio and ± 2 minutes on phase angle at 1.2 accuracy class or less.

2J4 Set Primary Ranges:

120 / 240 / 288 / 300 / 480 / 600 / 2,400 / 4,200 / 4,800 / 7,200 / 8,400 / 12,000 / 14,400 volts. (Consult factory on other ranges)

2J6 Set Primary Ranges:

14,400 / 21,000 / 24,000 / 36,000 volts (Consult factory on other ranges)

Burdens:

ANSI W, X, M, Y, Z, and ZZ; switch selectable. Provisions are made for use of an external burden.

Connecting Cable:

15 feet long (between transformer set and console).