

Perform **Quick & Accurate** Maintenance Tests on Instrument Transformers With the 2-in-1 **CTVT-45**

The CTVT-45 is a one-of-a-kind, 2-in-1 test set for current transformers (CTs) and voltage transformers (VTs) in the field or at the lab. Lightweight, reliable, and user friendly, the CTVT-45 performs basic and routine maintenance testing to keep instrument transformers operating safely and continuously.



Capable of testing knee voltages up to 45 kV and up to five taps on multi-tap CTs, the CTVT-45 tests a wide range of instrument transformers, including those in protection and metering applications. The device combines all-in-one testing with high accuracy and resolution to provide reliable and efficient equipment maintenance. The CTVT-45 can also store up to 5,000 data files to help keep maintenance reports accurate.

Avoid costly, unexpected shutdowns and critical equipment malfunctions with this unique tester. Trust the CTVT-45 to help you make smarter and more economical choices for safe, continuous operation of transformers. **CONTACT US FOR AN ON-SITE DEMO!**

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CTVT-45 FEATURES AND BENEFITS

- Performs all required CT measurements with the push of a button: winding resistance, ratio, polarity, burden check, excitation parameters, and phase error
- Performs all required VT measurements: winding resistance, ratio, polarity, burden check, ratio and phase angle error, and excitation parameters
- Measures knee voltages of up to 45 kV
- Simultaneously tests multi-taps
- Measures secondary burden for CTs and VTs
- Performs automatic demagnetization at the very end of the measurement
- Complies with ANSI and IEC standards



CTVT-45 SPECIFICATIONS

Voltage output: 0-180 VAC

Excitation curve measurement: Max. test knee voltage: 45 kV

Test frequency: 0.1-60 Hz; changes automatically with the CT's knee voltage

Current measurement: Range: 0-10 A; accuracy: 0.1%; resolution: 0.01 mA

Ratio test accuracy: Typical error $\leq 0.05\%$

Phase measurement accuracy: Typical error ≤ 60 min (1°)

Test operation: All CT measurements can be performed in one test; measures all required PT parameters

Functions: Measures all CT parameters (secondary time constant, flux factor, secondary inductor, etc.)

Voltage output waveform: From power amplifier board

Burden check: Secondary burden check for both CTs and VTs

Display: 12.1 in. LCD touchscreen

Size and weight: 485 mm x 356 mm x 183 mm (19" x 14" x 7"); 18 kg

Environment: -10°C to 50°C (15°F to 122°F); $\leq 90\%$ humidity

Applicable test standards: IEC 60044-1; IEC 60044-2; IEC 60044-5; IEC 60044-6; C57.13; C57.13.6

Current output: 0.001-5 A (RMS)

Memory capacity: 5,000 data sets



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