



CVT Range Extender

GENERAL DESCRIPTION

The CVT Range Extender is an accessory for the ELTEL TRM-100, TRM-150, TRM-200 & ATRM-200 Transformer Ratiometers and is intended to test the high ratios of CVTs used on High Voltage systems.

The CVT Range Extender can also be used to test the ratios of high ratio magnetic voltage transformers.

APPLICATION & OPERATION:

The CVT Range Extender performs two vital functions, namely it increases the test voltage that is applied to the test specimen to ~ 4800V (TRM-100/150/200) & 1440v (ATRM-200) and it also increases the maximum ratio that can be measured on the ratio meters upto ~ 80,000 to 1 (TRM-100/150/200) & 8000 to 1 (ATRM-200).

The increase in the test voltage biases the CVT into its more linear operating region, thus a reading approaching that of operating voltage can be obtained. The increase of the range of the maximum ratio allows one to measure CVTs such as those that would be used on 230, 345, 500 & 760 kV systems. Lower ratio CVTs, such as those used on 115 & 69 kV systems can also be tested. Increasing the operating voltage of the CVT allows one to make a measurement that are 10 or more times accurate than readings taken at normal ratio meter test voltages in the range of 36V to 120V.



SPECIFICATIONS

Input Voltage	: 36V (ATRM-200) & 120 V (TRM-100/150/200) supplied from the Ratiometer.
Output Test Voltage	: 1440V at 36V Input voltage conditions (ATRM-200). +4800V at 120V Input voltage conditions (TRM-100/150/200).
Excitation Capacity	: Suitable for exciting CVTs of up to 0.02 uF.
Ratio	: Increases the ratiometer range by 40 times.
Test Connections	: Four leads to the ratiometer; two leads to the test specimen.
Accuracy	: ±0.5% of ratio.
Dimensions	: Approx. 280x240x300 mm (lxbxh).
Weight	: Approx. 22kgs.



ELTEL INDUSTRIES

311 Embassy Centre, Crescent Road, Bengaluru 560 001, India

TEL: +91-80-22255467, 22205686, 22284298, +91-96866 69392
email: marketing@eltelindustries.com

www.eltelindustries.com

Manufacturing Facility: Plot No. 39, KJADB Industrial Area, Veerapura, Doddaballapur, Bengaluru – 561 203, INDIA.
TEL: +91-96866 93047, +91-96866 93048

■ GURGAON: 0124-2460619, 099903 88454 ■ HYDERABAD: 08008070840 ■ MUMBAI: 022-21713579
■ KOLKATA: 033-24765536, 09830067236, 09331094257 ■ VADODARA: 08155987799

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