



## VTS VOLTAGE SEPARATING TRANSFORMER

- Typical accuracy  $\pm 0.01\%$
- Operates with all types of meters
- High output power
- Resistance to non-linear loads
- Integration with the system

## INTRODUCTION

The VTS high-precision voltage separating transformer was designed for the galvanic separation of measuring circuits. The built-in electronic compensation system guarantees excellent parameters throughout the entire voltage range, ensuring simultaneous high output power.

A typical accuracy of  $\pm 0.01\%$  makes the device an ideal solution for a wide range of applications. Among them, is the potential to use the VTS for testing single-phase energy meters with closed I-P links i.e. meters with connected current and potential circuits. A broad range of working voltages, high output power and high accuracy enable the

VTS to be permanently integrated within a meter testing system. Once integrated, it can accommodate a diverse array of meters, (including those with open links) with negligible influence on overall system accuracy.

Of special note is the fact that the VTS, unlike passive transformers, copes superbly with non-linear loads, something typical modern electronic meters cannot do without lessening measurement accuracy.

This device is designed to test single-phase meters.

## TECHNICAL DATA

|   |   |
|---|---|
| Rated voltage   | 110V, 220V, 230V, 240V or to individual order |
| Voltage range   | $\pm 20\%$                                    |
| Ratio   | 1:1   |
| Frequency range   | 40 ... 70Hz                                   |
| Output power  | 25VA  |
| Peak output current   | 108mA @ 230V                                  |
| Input burden  | < 2VA   |
| Typical ratio error   | $\pm 0.01\%$                                  |
| Typical phase angle error                                     | 0.2'  |
| Signaling error and/or activation of short-circuit protection | Yes, red LED + audible signal                 |
| Shot-circuit protection                                       | Yes - signaled                                |
| Sensing primary and secondary voltage differential            | Yes - signaled                                |

For additional technical details, please contact our sales department ([sales@metertest.eu](mailto:sales@metertest.eu))

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