

HIGH-VOLTAGE MOBILE TEST LAB MarsLab-6185

Applied to calibration/verification of electronic transformers with IEC 61850-9-2 digital outputs:

- ✓ Current transformers up to 5 kA (IEC 60044-8-2010, MI 3602-2018)
- ✓ Voltage transformers up to $330/\sqrt{3}$ kV (IEC 60044-7-2010, MI 3603-2018)

Operation principle

The IEC 61850-9-2 digital stream coming from the transformer under test output is compared to the analogue output of the reference transformer. As a result of the comparison, ratio, phase and composite errors of the transformer under test are obtained.

Accuracy characteristics

Accuracy class of reference	Permissible limits of measurement errors		
current* or voltage** transformer	ratio, %	phase, min	composite, %
0.05	0.056	3.32	0.12

* Operating current range – 50 A ... 6 kA. ** Operating voltage range – $6/\sqrt{3}$... $110/\sqrt{3}$... $330/\sqrt{3}$ kV.

