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INSTRUMENTS FOR POWER INDUSTRY

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CALIBRATION SETUP FOR ELECTRONIC CURRENT TRANSFORMERS

MarsTest-ECT

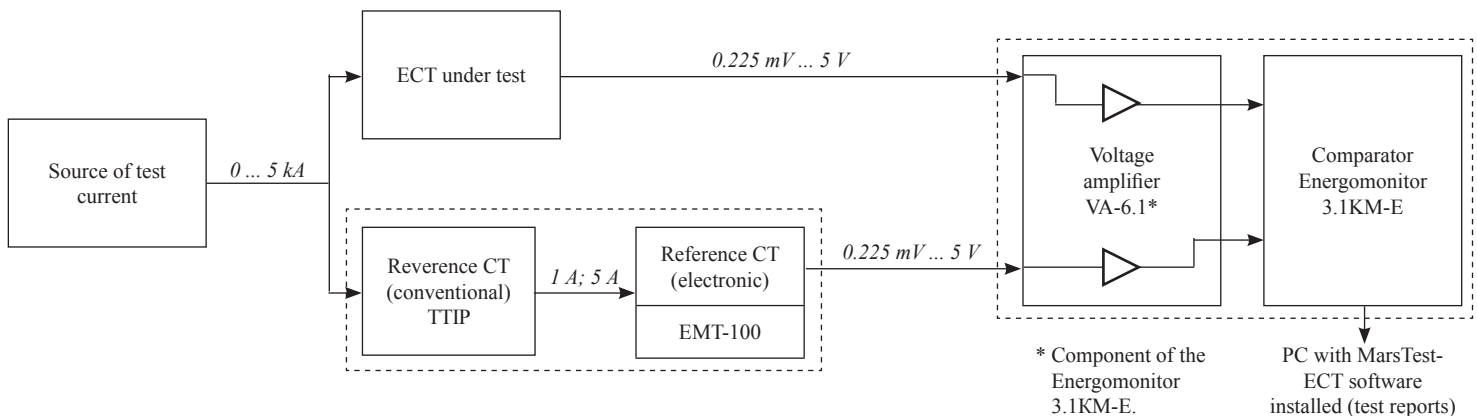
Purpose

It is a laboratory test set for accuracy testing and calibration of instrument current transformers with a non-conventional analogue output (ECTs) rated up to 5 kA (applicable to ECTs specified by IEC 60044-8 or ECT+EVT combined transformers).

Sphere of application

Calibration/testing laboratories operated by manufacturers of non-conventional electronic transformers, certification bodies etc.

Calibration system for electronic current transformers



Technical and accuracy specifications

Parameter	Range	Limits for permissible intrinsic measurement error
Rated primary current, A	5...5000	—
Rated secondary voltage, mV	0.225 ... 5000	—
Amplitude error δ_r (current scaling factor error), %	—	± 0.056
Angle error Δ_δ (phase shift error), min	—	± 3.35

Errors introduced by system components

Error	Transformer TTIP	Transformer EMT-100	Comparator Energomonitor 3.1KM-E with VA-6.1	Test set MarsTest-ECT
Amplitude (current), %	± 0.05	± 0.01	± 0.005	± 0.056
Angle, min	± 3	± 0.5	± 0.2	± 3.35