•ME AUDIT•

Application

ME Audit is a set of equipment applied for accuracy testing and verification of instrument voltage transformers ranging from 6 to 330 kV and current transformers up to 5 kA (or up to 30 kA). The set can be prepared either for laboratory or field conditions.

Rated currents:

PCTI-100/5(1): 5; 10; 15; 20; 25; 30; 40; 50; 60; 75; 80; 100 A **PCTI-5000/5(1)**: 150; 200; 250; 300; 400; 500; 600; 750; 800; 1000; 1200; 1500; 2000; 3000; 4000; 5000 A.

Standard rated voltages: $6/\sqrt{3}$; 6; $10/\sqrt{3}$; 15; $35/\sqrt{3}$; 35; $110/\sqrt{3}$; $220/\sqrt{3}$; $330/\sqrt{3}$ kV (other ranges can be made to order).

Scope of Supply



Test Set for testing current transformers of accuracy classes up to 0.2S rated from 5 to 5000 A

Accuracy class of the Reference Transformer: 0.05

Application

Accuracy testing and verification of CTs in accordance with the certified test procedures.

Comparator



Energomonitor 3.3T1-C-TP complete with CTCS 1 A or 5 A



Energomonitor 3.1KM-P





Portable current transformers of reference class:

- PCTI-100/5 or PCTI-100/5(1), 5–100 A
- *PCTI-5000/5 or PCTI-5000/5(1), 100–5000 A.* Accuracy class 0.05.



Adjustable Current Source IT5000 (up to 6000 A)

Test Set for testing instrument current transformers (6 to 30 κ A) by the indirect method

Application

Accuracy testing and verification of CTs in accordance with the certified test procedures.



VCC Converter (converts Voltage/ Current curve of the CT under test) is applied for determining ratio and angle errors of instrument current transformers (complete with Delta-T software) by the indirect method

High-Voltage Portable Transformer Test Sets

Single-phase HVTS-1

Three-phase HVTS-3-10. HVTS-3-35

Accuracy classes 0.1; 0.05

Application

On-site testing and verification of instrument voltage (potential) transformers of accuracy classes up to 0.2 Single-phase (rated at 110, 220, 330 kV) Single- and three-phase (rated at 6, 10, 35 kV)

Scope of Supply

1. Comparator Energomonitor 3.1KM-P or Energomonitor 3.3T1 complete with VTCS (commutator)

2. Reference device: Reference Capacitive High-Voltage Transducer of CHVT series

CHVT-110 (-220, -330)

CHVT-10-2 or CHVT-35-2 with UIN-D amplifiers

3. High-Voltage source

For VTs rated up $100/\sqrt{3}$ kV:

Mobile HV Source UIV-100/7.5M (generated power 7.5 kVA), Console Unit and Voltage Regulation Unit included For VTs rated up to $220/\sqrt{3}$ kV:

Mobile HV Source UIV-150/18M (generated power 18 kVA), Console Unit and Voltage Regulation Unit included For **330 kV VTs**:

the adjacent primary phase of the VT under test is used as a HV source (MI 3314-2011)

Option 1: 3-phase set of dry-type VTs (TN-10 or TN-35) **Option 2**: 3-phase set of IOG-type (SF₆ filled) VTs

3-phase variable-ratio transformer

3-phase Console Unit (PU-10 or PU-35)

4. Burden boxes

 $100/\sqrt{3}$ V, 80 VA; $100/\sqrt{3}$ V, 200 VA

 $100/\sqrt{3}$ V, 80 VA (200 VA); 100 V, 80 VA (200 VA)

5. Set of cables (power, control, measurement, grounding, corona-free etc.)

6. Personal computer, printer, software

7. Test procedures

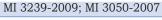
MI 3314-2011; MI 3050-2007

HVTS-1-110 for testing VTs 110 kV

HVTS-1-220

for testing VTs 110, 220 kV

HVTS-1-330 for testing VTs 110, 220, 330 kV





HVTS-3-10

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Patent

HVTS-3-35 for testing VTs 15, 35 kV

High-Voltage Capacitive Measuring Transducer of CHVT series

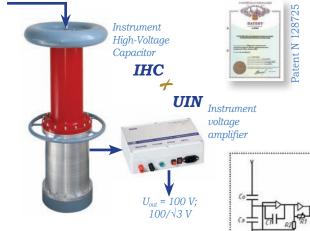
Accuracy class 0.1 (0.05 supplied to order)

Application

- Used to measure the high voltage applied to its high-voltage input by converting it into the low voltage with a certified sclaling factor
- As a reference measuring instrument, is applied for testing of instrument-class VTs 6-330 kV of up to 0.2 accuracy class.

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Model	Rated voltage, kV	Height, mm	Weight, kg
CHVT-10	6, 10	350	4
CHVT-35	15, 35	450	8
CHVT-110	110	650	25
CHVT-220	110, 220	950	35
CHVT-330	220, 330	1100	45

High voltage