



VIC/600

Instrument Transformer Test Set

- TWO TEST SET IN ONE: TRANSFORMER TEST SET AND CURRENT SUPPLY UNIT
- COMPACT AND SAFE DESIGN
- POWERFUL CURRENT AND VOLTAGE OUTPUT

Application

VIC 600 has been designed for the complete test of the instrument transformer. VIC 600 can perform the following tests:

Excitation curve test of Current Transformer Ratio and burden of Current and Voltage transformers

Primary current injection

Polarity test of Current Transformers

Test of connection to ground of the CT and PT

Resistance of the burden of the CT

Over-current protection for PT

Connections and meters connected to the PT



VIC/600 Specification

VIC 600 generates the following outputs:

AC High Current 600 A:

One high current output for testing ratio and burden of CT.

AC Voltage 600 V:

One voltage output with two selectable ranges for testing overloading limit of the CT and for testing connections and meters connected to the PT.

Current Impulses:

An output of positive current impulses for testing CT polarity.

AC Lower Current Output:

One lower current output, with two impedance ranges for testing connection to ground of the CT and PT; over-current protection for the PT.

DC Current Output for testing the CT resistance of the burden.

AC high current outputs

| RANGE | CURRENT A | POWER VA |
|-------|-----------|----------|
| 1 | 0...100 | 1000 |
| 2 | 0...200 | 1500 |
| 3 | 0...300 | 2200 |
| 4 | 0...600 | 3200 |

AC high voltage outputs

| RANGE | CURRENT A | POWER VA |
|-------|-----------|----------|
| 1 | 0...600 | 1200 |
| 2 | 0...120 | 240 |

Current impulses output

Current impulses have a value adjustable from 0 to 10 A. They are generated discharging a capacitor charged from 0 to 10 V, with a series resistance of 1 Ohm. Output waveform: R-C impulses with a time constant of 0.20 s, generated every 2 s.

AC low current output

1. For high load impedance, up to 10 A;
 2. For low load impedance, up to 2 A.
- Power at 10 A: 100 VA, continuous duty.
Output impedance at 2 A: 2.2 Ohm.

DC current output

Range: 2 A.
Overload: 4 A for 5 minutes.
Output power: 16 W at 2 A.

Output measurements

The output measurements are performed by two digital instruments: one for the current and one for the voltage, that are switched to the desired output by a three-position switch:

- . A.C. voltage output;
- . A.C. current output;
- . D.C. current output.

Type of measurement: true RMS.

Accuracy: $\pm 0.5\%$ of the reading $\pm 0.1\%$ of the range.

Display: two LED display.

Auto-ranging with the output at one tenth of the range.

Measurement ranges:

- . A.C. current: 1999 A or 19.99 A (19.99 A or 1.999 A);
- . Voltage of A.C. output: 19.99 V (1.999 V);
- . A.C. voltage: 1999 or 199.9 V (199.9 or 19.99 V);
- . Current of A.C. voltage: 19.99 A (1.999 A);
- . D.C. current: 19.99 A (1.999 A);
- . Voltage of D.C. current: 19.99 V (1.999 V).

Note: In brackets the ranges after autoranging.

Protections

Magneto-thermic breaker on the supply.

Thermo-switch on the main transformer.

Re-triggerable fuse on the A.C. voltage output.

Re-triggerable fuse on the D.C. current output.

Protection circuits on the A.C. current and pulse current outputs, that discharges if the output exceeds 20 V.

Discharging current: 25 A, continuous duty.

Power supply

230 V $\pm 15\%$; 50/60 Hz.

Case

Aluminium case with cover and handles for transport.

Weight and dimensions

Dimensions: 420 x 310 x 300 mm.

Weight: 23 kg.

Accessories supplied with the unit

VIC 600 is supplied complete with the following accessories:

- . Mains cable;
- . Operating manual.

Applicable Standards

Electromagnetic compatibility

Directive no. 89/336/CEE dated May 3, 1989, modified by the directive 92/31/CEE dated May 5, 1992.

Applicable Standards:

EN 50081-2; EN 50082-2; EN 55011;
EN 61000-3-3; EN 50082-2; ENV 50140; ENV 50141;
ENV 50204; IEC 1000-4-2; IEC1000-4-4; IEC 1000-4-6;
IEC 1000-4-8.

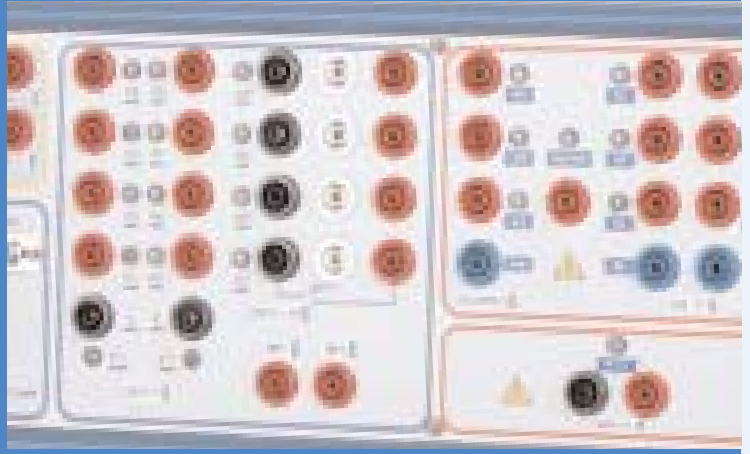
Low voltage directive

Directive n. 73/23/CEE, modified by the directive 93/68/CEE.

Applicable standards, for a class I instrument, pollution degree 2, installation category II: CEI EN 61010-1. In particular:

- . Operating temperature: 0 - 45°C;
Storage: -25°C to 70°C.
- . Relative humidity: 10 - 80% without condensing.





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