

- **Two test sets in one: transformer test set and current supply unit**
- **Compact and safe design**
- **Powerful current and voltage output**

A P P L I C A T I O N

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	VOLTAGE V	POWER VA
1	0...100	1000
2	0...200	1500
3	0...300	2200
4	0...600	3200



AC high voltage outputs

RANGE	VOLTAGE V	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:

- . AC voltage output;
- . AC current output;
- . DC 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:

- . AC current: 1999 A or 19.99 A (19.99 A or 1.999 A);
- . Voltage of AC output: 19.99 V (1.999 V);
- . AC voltage: 1999 or 199.9 V (199.9 or 19.99 V);
- . Current of AC voltage: 19.99 A (1.999 A);
- . DC current: 19.99 A (1.999 A);
- . Voltage of DC 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 AC voltage output.
Re-triggerable fuse on the DC current output.
Protection circuits on the AC 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.

Ordering information:

CODE	MODULE
12095	VIC 600
14095	Test Cables for VIC 600