



VIC/600

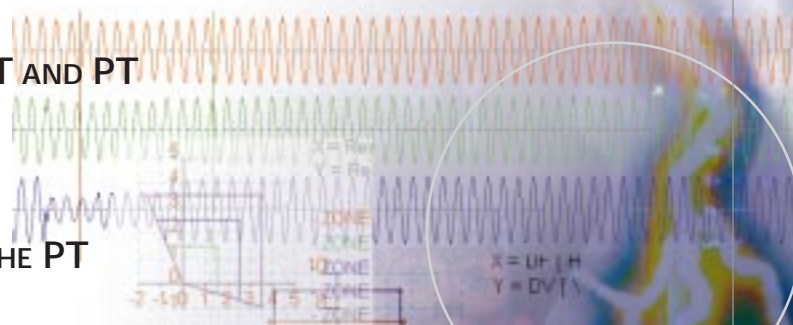
INSTRUMENT TRANSFORMERS TEST SET

- 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:

A.C. HIGH CURRENT 600 A:

One high current output for testing ratio and burden of CT);

A.C. 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;

D.C. 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.

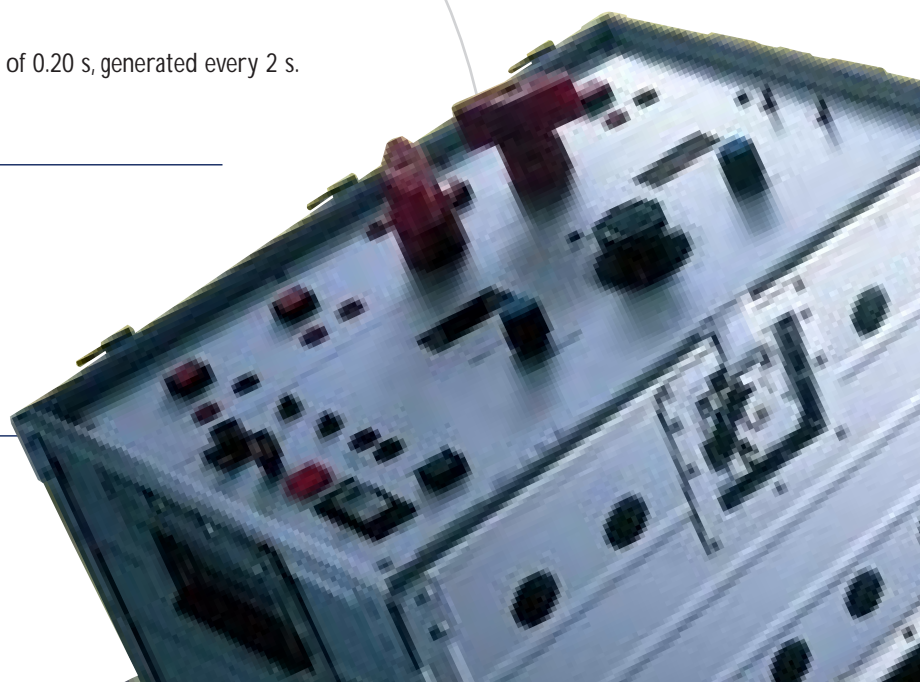
Output impedance at 2 A: 2.2 Ohm.

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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