POWER INDUCTION GENERATOR

PIG 1500

0 - 750 V≈ / 0 - 1500 V≈

Series resistor:
2 * 600 Ω / 200 Ω

The Power Induction Generator PIG 1500 has been designed for testing of telephone equipment acc. to CCITT K.20. It simulates induced voltages on long telephone lines.

The output voltage is adjustable in two ranges from 0 to 750 V or 0 to 1500 V. The device under test is connected via two series resistors of 600 Ω. This resistor can be switched to 200 Ω by connecting two resistors of 300 Ω in parallel.

For testing dc-powered A-B wires coupling capacitors of 0.5 µF or 1 µF can be inserted and the symmetrical output can be shorted with a 100 Ω resistor, see Fig. 1.

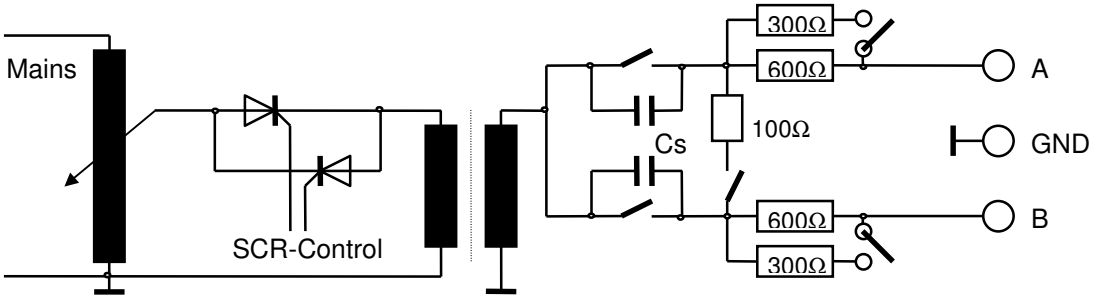

Fig. 1: POWER INDUCTION GENERATOR PIG 1500, schematic

PIG 1500 features a microprocessor controlled user interface and display unit for ease of use. The microprocessor allows the user to execute either standard test routines, or a ´user defined´ test sequence. The test parameters, which are shown on the built-in display, are easily adjusted by means of the rotary encoder. A standard parallel interface provides the ability to print a summary of the test parameters whilst testing is being carried out.

The Power Induction Generator PIG 1500 excels by its compact design, simple handling and precise reproducibility of test parameters.

Technical specification PIG 1500

Mainframe:

Microprocessor controlled LCD module			8*40 characters
Parallel printer interface for on-line documentation			25-way ´D´connector
Optointerface for remote control of the generator			built-in
Connector for external safety interlock loop			24 V =
and external red and green warning lamps acc. to VDE 0104			230 V, 60W
Mains power supply			230 V / 2 kVA average
Dimensions:	desk top case	W * H * D	471*156*520 mm^3
Weight			35 kg

Power Induction Generator:

Output voltage,	adjustable	Range 1	0 - 750 Veff
	switch able to	Range 2	0 - 1500 Veff
Display of output voltage			0 - 100%
Max. output current, at 5% duty cycle			2.5 A
Nominal power of the output transformer			600 VA
Over-current detector			built-in
Test time, adjustable			0.1 - 2.5 sec
Cooling down period after each test			1 min
No. of tests, adjustable			1-100
Repetition rate			1/60s - 1/1000s
Monitor output for test current			Rm = 10Ω, ± 2%
Monitor output for test voltage			ratio = 100 : 1 ± 2%

Coupling network:

2 series resistors, built-in	600 Ω/100 W
internally switch able to	200Ω/100W, 4A max
2 coupling capacitors, switch able	0.5µF/ 1.0 µF, 250 Vac
1 parallel resistor, switch able	100 Ω/ 50 W

Acc.: power cable, turnkey, instruction manual.