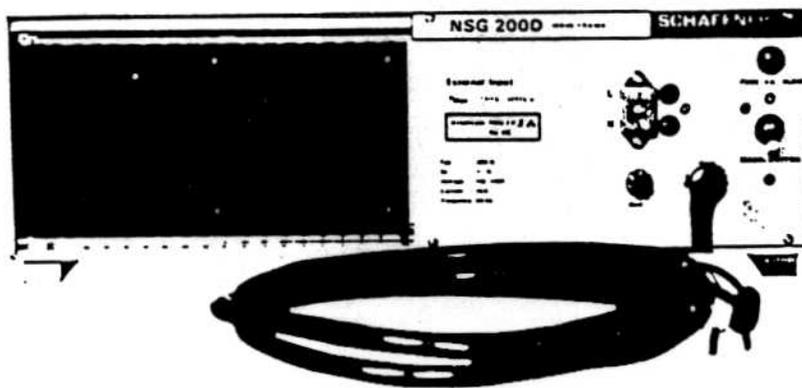


2.1.2 The rear panel



A.) Ext. Input

Used for adding voltage pulses to supply voltages other than the line voltage and with the (NSG 203 A for interrupting) a.c. line voltages other than the line voltage.

The connector marked L is connected to the terminal L on the front panel, the connector N to the terminal N if main switch is in position "Ext.".

2.1 Description

The circuit elements that are used for all types of interference simulation are placed in the main frame. These elements are the different mains filters, line switches and fuses. In operation the main frame must be connected to the line voltage (110/120 Volt, 60 c/s) through the line cable. This line voltage will operate the electronic circuits and - if the main switch is on position "on" - it will appear at the terminals L, N and Gnd on the front panel of the instrument with the proper interference added to it.

The interference can however be added to other supply voltages (for example to d.c. or to 400 c/s) by placing the main switch in position "ext" and by applying the proper voltage to the connectors marked "EXT." on the rear panel of the instrument. Now this voltage with the interference applied by the instrument will appear on the front panel at the terminals marked L, N and Gnd.

The magnetic switch will interrupt the line current supplied to the instrument under test if it exceeds a value of 16 amp. It will not interrupt an externally applied current.

It is important that the instrument be grounded with a wire attached to the ground terminal on the rear of the instrument. The reason for this is that the capacitors to earth in the mains filter would permit under unfavorable circumstances a current to 2 ma to flow through an operator if

the equipment is not grounded. Since this is very dangerous it is important that the instrument be grounded through a second ground wire to the ground terminal on the rear of the instrument.

If the instrument is to be used at 400 c/s it will be necessary to lift the cover plate of the NSG 200 D and change a connection on the print from the terminal marked "50/60 Hz" to the terminal "400 Hz".