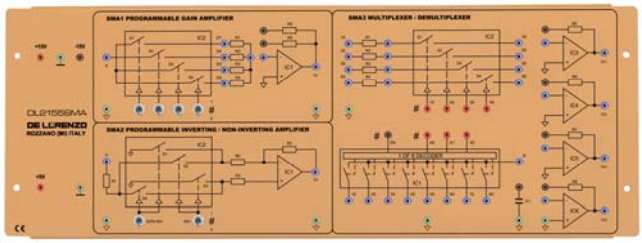
ELECTRONICS

Analog Switches and Multiplexers



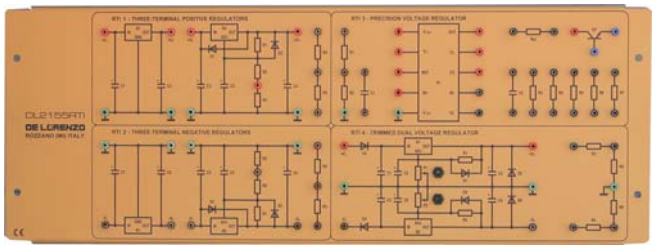
DL 2155SMA

The board is designed to study the problems related to the application of analog switches. These switches, and the multiplexers, find a wide application in data acquisition systems, telephone systems, process controls and in all the situations where low power signals have to be switched with high switching speed.
The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.
Power supply: ± 15 Vdc and + 5 Vdc, 750 mA

Experiments

- Analysis of analogue switches operations and performances
- Analysis of some typical applications of analogue switches as adjustable gain amplifiers, inverting/non inverting configuration, programmable amplifiers and programmable attenuators
- Analysis of a multiplexer with four analogue inputs
- Analysis of a demultiplexer with four analogue outputs

Voltage Regulators with Integrated Circuits



DL 2155RTI

The board is designed to study the regulators, in particular the voltage regulators, with integrated circuits.
The board is arranged into several modules that allow the study of three terminals positive and negative voltage regulators with either fixed or adjustable output voltage.
Then, a dual voltage regulator and a general-purpose regulator integrated circuit are analyzed.
The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.
Power supply: ± 15 Vdc, 750 mA

Experiments

- Analysis and functional checking of a three-terminals positive/negative voltage regulator with fixed output
- Adjustment of output voltage in three-terminals regulators
- Analysis and functional checking of a dual voltage regulator with separately adjustable voltages
- Measurements of input and output characteristics of previous regulators
- Analysis and operating modalities of a general-purpose monolithic regulator