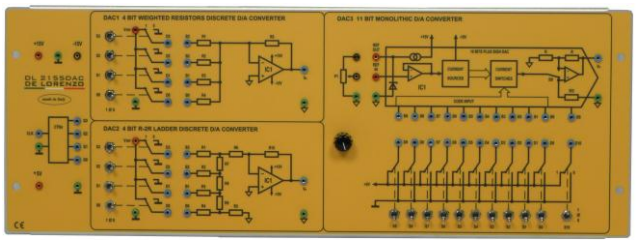
ELECTRONICS

Digital-To-Analogue Converters



DL 2155DAC

Experiments

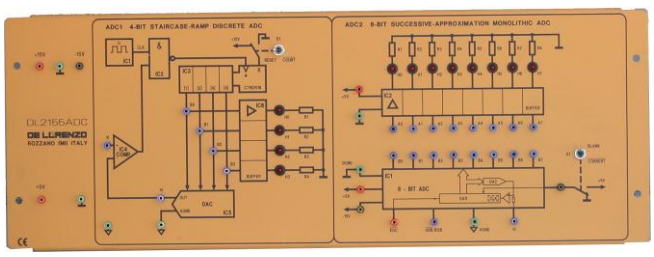
- Analysis of the operation of a weighed resistances converter
- Analysis of the operation of a converter in a R-2R network
- Analysis of the conversion errors
- Analysis of the operation and of the main characteristics of a monolithic converter

This board allows the study of the operating principle and of the main characteristics of a digital-to-analogue converter.
The board is composed of 3 independent sections:

- a weighed resistances discrete components D/A converter
- a discrete components D/A converter in a R-2R network
- a monolithic 11 bit D/A converter

While the first two sections are used to highlight the operating principle of two different D/A converters, the third one is used to analyse the operating modes and the characteristics of the converters that are commercially available.
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, 200 mA and + 5Vdc, 200mA

Analogue-To-Digital Converters



DL 2155ADC

Experiments

- Analysis of the operation of a counter converter
- Analysis of the operation and of the main characteristics of a monolithic converter
- Analysis of the conversion errors

This board allows the study of the operating principle and of the main characteristics of analogue-to-digital converters.
The board is divided in 2 sections: in the first one a discrete component realization is provided of a ramp A/D counter converter, while in the second section there is a monolithic converter.
The first section is used to highlight the operating principle of an A/D converter, while the second one is mainly used to analyse the operating modes and the characteristics of the converters that are commercially available.
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, 100 mA and + 5Vdc, 200mA