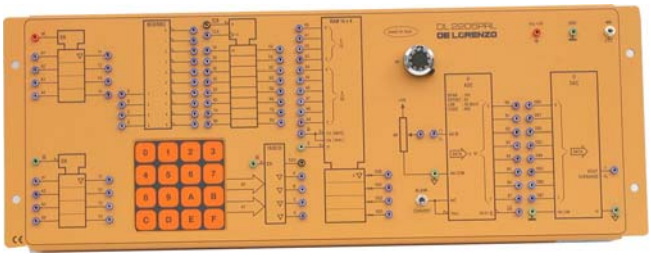
ELECTRONICS

Programmable Logic

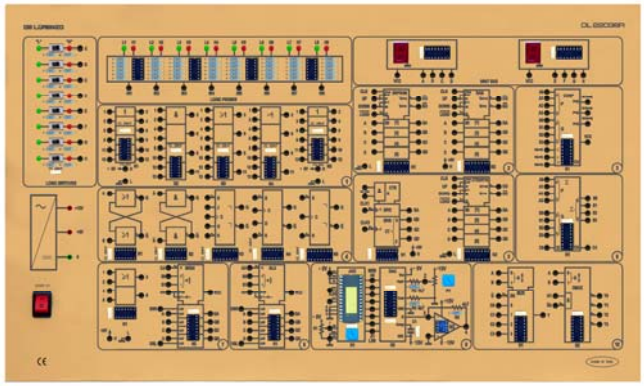


DL 2205PRL

This board allows the study of RAM memories and circuits using RAMs for storing logic information and for data transfer to a BUS.
The board is composed of:
- 4 + 4 buffers with three-state output
- 8-bit latch register (type D)
- 4-to-10 line decoder
- RAM 1024 x 4
- hexadecimal keypad
- coder for hexadecimal keypad
- 8-bit digital-to-analogue converter
- 8-bit analogue-to-digital converter
- multiturn potentiometer for generating voltages between 0 and 10V

Power supply: 5Vdc

Digital Board



DL 2203SR

Experiments
- Basic logic circuits
- Schmitt triggers
- Bistable multivibrators
- Monostable multivibrators
- Code converters, coders
- Arithmetic circuits
- Counting circuits
- Register circuits
- Multiplex mode Arithmetic Logic Unit
- Memory circuits
- Analog-Digital converters
- Digital-Analog converters

This board allows the study of several digital circuits.
Technical features:
- 4-bit comparator
- 4 JK-flip flops, can also be used as RS flip flops
- 4 D-flip flops
- 2 adders (4-bit), with input and output carry
- Multiplexer, 4 channels
- Demultiplexer, 4 channels
- Shift register (4-bit), parallel and serial operation possible, bi-directional
- ALU, for conducting 16 arithmetic and 16 logical computing operations with 4-bit dual numbers
- Binary counter (4-bit), up/down counter
- 2 inverters
- 2 Schmitt triggers, inverting
- Units complements for negating a 4-bit binary number
- Antivalence and equivalence gates
- EEPROM
- AD/DA converter 8-bit
- Auxiliary section on board:
  - 8 switches with led to generate logic level
  - 8 logic probes with led for high and low level
  - 2 seven segment led displays with BCD decoder

Built-in power supply