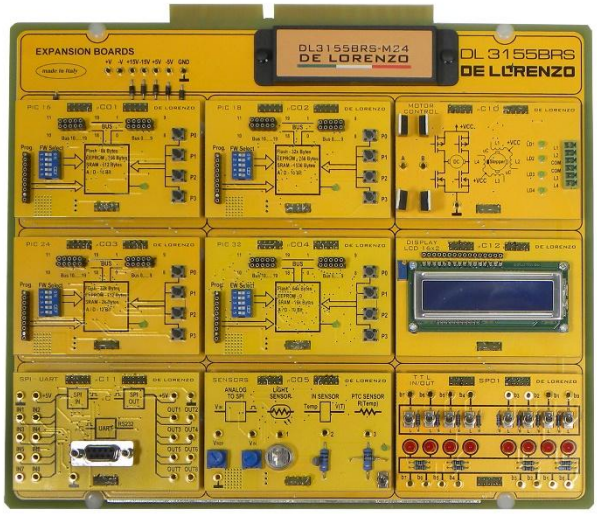
ELECTRONICS

KIT FOR THE STUDY OF MICROCONTROLLERS



DL 3155BRS-M24

The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering.

With this board the students can study the fundamentals and the characteristics of microcontrollers.

NOTE WELL! The board comes with a case complete with all accessories.

LEARNING EXPERIENCES

DIGITAL IN/OUT

- Exercise 01: Turn ON and OFF a LED by pressing a button
- Exercise 02: Displays the values read from Digital Inputs
- Exercise 03: Turns on LEDs two by two when some buttons are pressed
- Exercise 04: Counts in binary mode up to 1111
- Exercise 05: Turns ON LEDs one by one.

SENSORS

- Exercise 01: Displays the value of Vin
- Exercise 02: Displays the Temperature value
- Exercise 03: Displays the value of Light intensity
- Exercise 04: Displays the value from PTC sensor

CIRCUIT BLOCKS

- PIC 16 mini board
- PIC 18 mini board
- PIC 24 mini board
- PIC 32 mini board
- Digital IN/OUT mini board
- TTL IN/OUT mini board
- Sensors mini board
- D/A – A/D converters mini board
- Memory (EEPROM & RAM) mini board
- Motor control mini board
- Opto IN/OUT mini board
- SPI-UART interfaces mini board
- LCD display mini board

DE LORENZO S.p.A. V.le Romagna 20 – 20089 ROZZANO (MI) Italy
Tel. + 39 02 8254551 - E-mail: info@delorenzo.it- sales@delorenzo.it

ELECTRONICS

D/A & A/D CONVERTER
- Exercise 01: Displays the value that is set with the potentiometer on the D/A Converter

MEMORY
- Read or write the memory of the microcontroller

MOTOR CONTROL
- Exercise 01: Change the speed and the direction of rotation od DC motor
- Exercise 02: Increase or decrease the stepper speed

OPTO IN/OUT (PIC16; PIC18; PIC24; PIC32)
- Exercise 01: Display the status of the opto-isolated inputs

SPI-UART
- Exercise 01: Display the status of inputs
- Exercise 02: Enables the use in binary mode depending on the decimal value set on display
- Exercise 03: Sends through RS232 a string of characters viewed on hyperterminal
- Exercise 04: The microcontroller receives a string of characters sent by hyperterminal through RS232 and allows displaying them on LCD

Complete with theoretical and practical manual.
Dimensions of the board: 297x260m

ACCESSORY INCLUDED:
DL 2555ALG - DC POWER SUPPLY

- ± 5 Vdc, 1 A
- ±15 Vdc, 1 A

DE LORENZO S.p.A. V.le Romagna 20 – 20089 ROZZANO (MI) Italy
Tel. + 39 02 8254551 - E-mail: info@delorenzo.it- sales@delorenzo.it