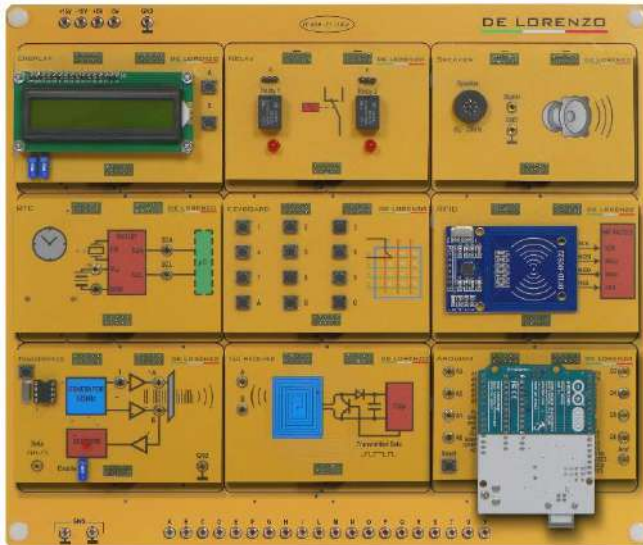




## KIT FOR THE STUDY OF RFID APPLICATIONS



**DL 3155BRS-RFID**

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 properties of an RFID system and all components necessary to develop a door access control system.

The student will be able to interact with the hardware in a simple and intuitive way through a CAI software that explains step by step how the system works.

The system is provided with a SCADA software for the study of automation and industry 4.0 concepts, and can be combined with other trainers in the family to simulate a scaled down industry 4.0 factory.

### LEARNING EXPERIENCES

- Behaviour of the reader when a tag is identified
- How to read data from proximity integrated circuit card using a RFID reader
- How to read and write data blocks on a MIFARE proximity integrated circuit card
- How to write personal data to a MIFARE proximity integrated circuit card using an RFID reader
- How to read personal data to a MIFARE proximity integrated circuit card using an RFID reader
- How to activate a relay using the outputs of the microcontroller.
- How to control a display by using the microcontroller
- How to control a real time clock device by using the microcontroller
- How to connect a keypad to a microcontroller
- Simulation of a door access control system

### CIRCUIT BLOCKS

- Base board
- Real time clock mini board
- LCD Display mini board
- RFID Reader/Writer mini board
- Transponder mini board
- Audio speaker mini board
- Relay mini board
- Tag receiver mini board
- Keyboard mini board
- Micro-controller mini board

Complete with theoretical and practical manual.

Dimensions of the board: 297x260mm

### ACCESSORY NEEDED:

#### DL 2555ALG - DC POWER SUPPLY



- $\pm 5$  Vdc, 1 A
- $\pm 15$  Vdc, 1 A