

**Project summary**

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**Main Objective**

The development of a RS485-RS232 converter that can simplify the access to the Elster meter's data.

**Sub-Objectives**

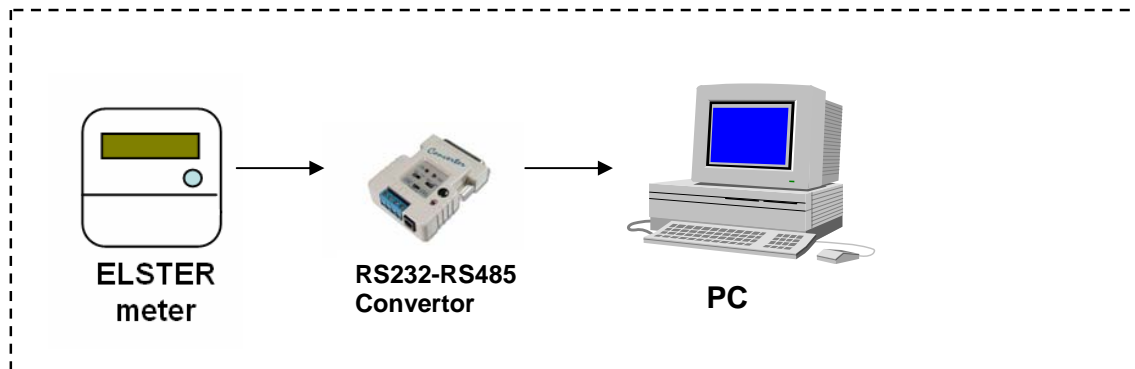
- To make students become more familiar with the major stages in development process;
- To study different communications alternatives between electronic equipments;
- To design and manufacture a RS485-RS232 converter prototype;
- To develop a financial analysis regarding the production costs;
- To prepare a comprehensive report on the design;

**Abstract**

Elster's meter offers the advantage of leading edge electronic metering technology. The information from meters has to be sent to a PC in order to be used in an Automatic Metering System (AMR). The device shall be used for conversion between the RS485 and RS232 in order to link the meters with a PC:

The requirements of the converter are:

- Input: 9V DC
- Input: RJ11 connector
- Output: RJ11 connector
- DTE/DCE device setting selectable
- to support up to 32 users

**Development Tools**

Extension Boards (AD Converter, IrDA interface, RS485 interface, RTC)  
 Oscilloscope, Signal Generator, Digital Counter  
 Testing boards, electronic components  
 PC  
 Documentation

**Skills and Requirements**

The student should have good knowledge of data acquisition systems, analog and digital circuits, electronic instrumentation, OrCAD. English is compulsory.

**Elster Rometrics**

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