

## Remote Monitoring of Laboratory Pressure and Temperature

### Need:

The Biogénesis Bagó Laboratory manufactures all types of vaccines for the livestock industry. The company entrusted us the acquisition of certain vital control parameters, in their manufacturing laboratories. Pressure and temperature are the two most important variables since they have an influence in the quality of the vaccines. Supervision and control of the acquired variables had to be made remotely by means of the company's own LAN network.



### Equipments



### Solution:

The lab's pressure variables were presented in 4-20mA format and the temperature in the Pt100 sensor format, therefore a decision was made to use Exemys' analog acquisition devices of the RME family (RME1-AI and RME1-PT).

The devices acquired the variables and converted the information into a TCP/IP Ethernet data stream with its output connected directly to the LAN network.

From the automation and control office at the lab, and by means of proprietary software developed by the company, the information is currently obtained from the registers of the different pressures and temperatures and action is taken when a variable moves outside the safe operating range.

