FNet fermenter control software

FNet is a software for monitoring fermentation and cell culture processes with the LAMBDA MINIFOR laboratory fermenter. The software runs under Windows NT, 2000 and XP:

Ready to use software

- Easy to install

- The software recognizes the connected fermenters at start-up. Up to 6 fermenters, 12 integrators and 6 pumps can be connected to one PC (figure 1)

- No need of programming knowledge

- All cables are easy to connect and have standard connectors

- No special add-in or license to buy for the connection of new fermentors
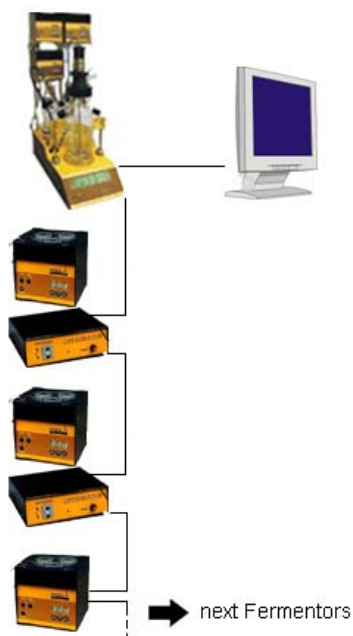

next Fermentors

Figure 1

Display and graphs

All the information (actual values, set points, graphs, alarms) of the fermenter is presented in the main window (figure 2):

- Actual values like temperature, pH, pO_2, air flow rate, amount of base and acid, and an additional parameter X which could be for example the culture weight for continuous processes, optical density or an online biomass concentration measurement.

- Set point values like temperature, pH, pO_2, air flow rate, agitation, another parameter X and one feed with a peristaltic pump

- Scalable graphs: The user can choose the fermenter parameters he wants to display in function of time
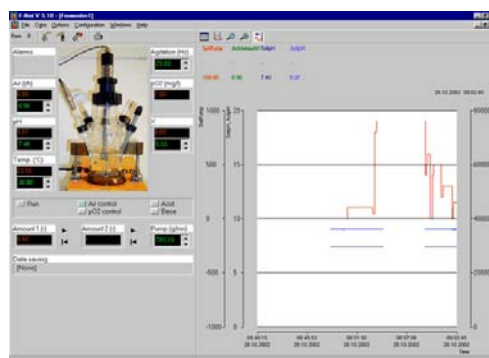
- Ruler to read values on the graphs

Figure 2

Data archive

The process data (temperature, pH,...) are stored in a text file. This file can be exported to most programs on the market for statistical treatment or reporting. More fermentation batches can then be compared for process optimization.

Process control

- Remote control of the fermenter, all the set point values can only be changed from the PC

- Possibility to know the amount of base and acid added into the fermenter

- Profiles on all the set points like temperature, pH, pO_2, air flow rate, agitation, parameter X or feed with a peristaltic pump (figure 3)

- Alarm management: The user can activate alarms for temperature, pH, pO_2, air flow rate, agitation, parameter X.

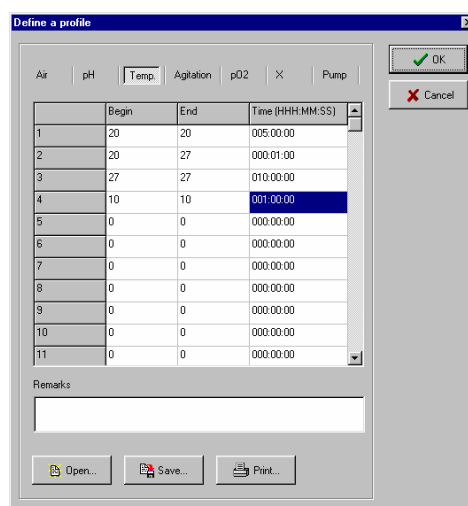- The program shows when an alarm has occurred.

Figure 3