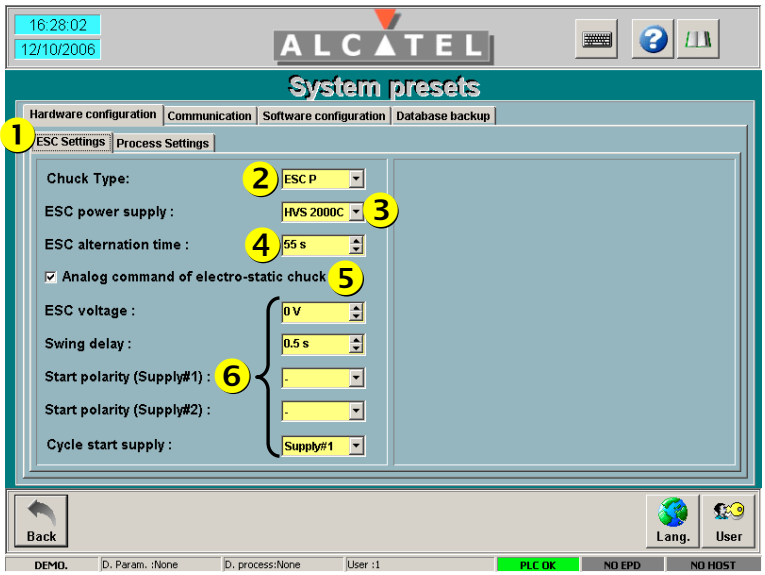
The System presets

Only the system administrator has access to the system configuration presets. These presets correspond to the hardware and software configuration of your machine.

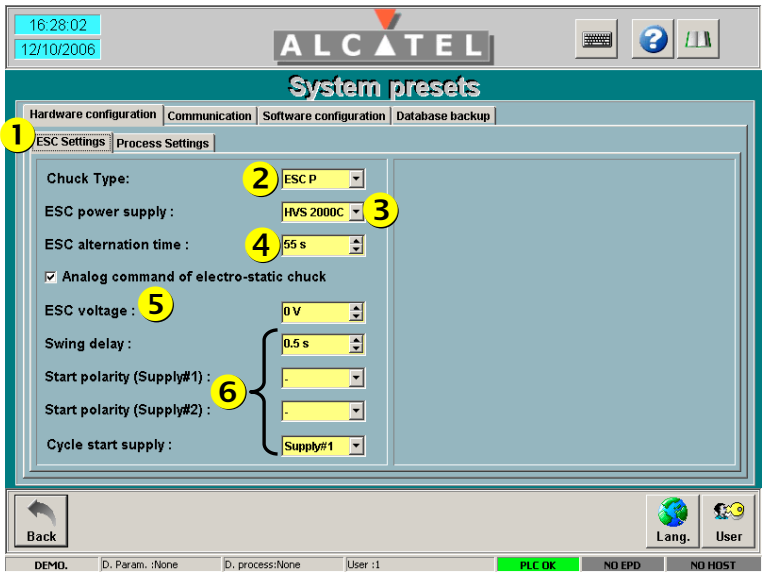
1 - The hardware parameters

1-1 The "**ESC Settings**" tab



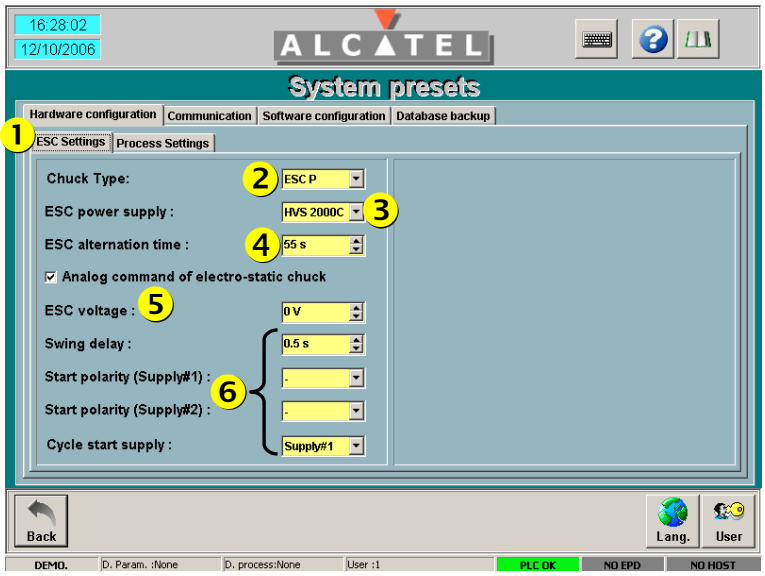
Item	Designation	Signification
1	Hardware configuration tab and ESC Settings tab	Selection of the hardware parameters related to the chuck.
2	Chuck type	Selection of the type of chuck fitted on your machine: ■ **Mecha.**: mechanical chuck ■ **ESC F**: ESC finger chuck ■ **ESC P**: ESC PIN chuck.

The System presets



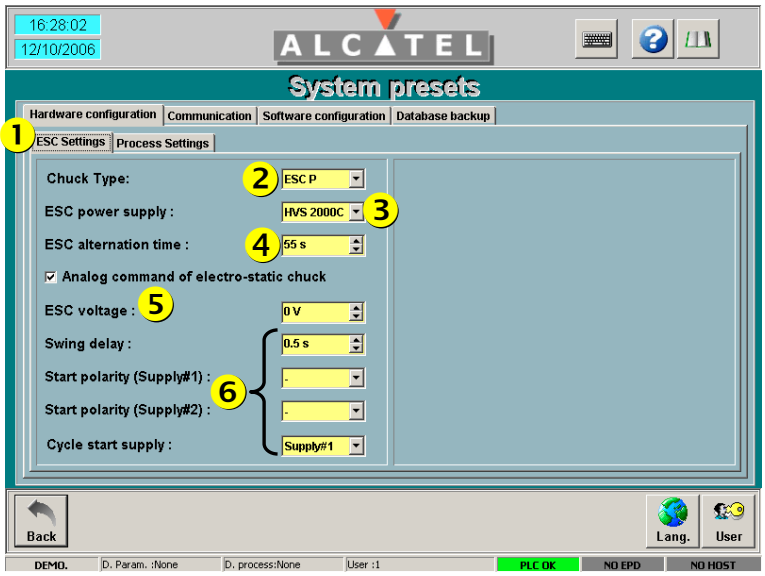
Item	Designation	Signification
3	ESC power supply	Selection of the model of ESC power supplies fitted on your machine: ■ **None**: if your machine is not equipped with a ESC chuck. ■ **HVS 1500**: if your machine is equipped with a HVS 1500 ESC power supply. ■ **HVS 2000C**: if your machine is equipped with a HVS 2000C ESC power supply.
4	ESC alternation time	When you select a ESC power supply (HVS 1500 or HVS 2000C model), you have to adjust the ESC alternation time. Whenever this time has elapsed, the power supplies polarity is inverted on the ESC chuck. **Notes**: ■ this value is a default value applied only when there is no process in progress (i.e. during a semi-automatic transfer). ■ during a process, this value is not used and the system sets the ESC alternation time set in the current step edition window.

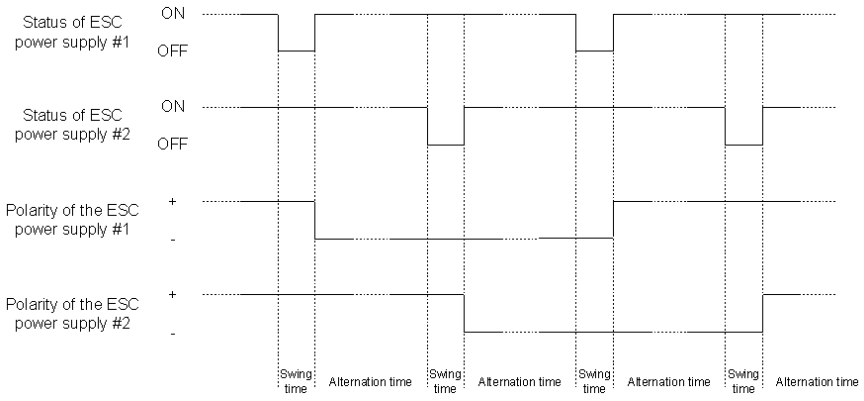
The System presets



Item	Designation	Signification
5	Analog command of electro-static chuck ESC voltage	Check this option if your machine is equipped to manage the ESC voltage. In that case, you have to adjust the power supplies voltage ("**ESC voltage**" parameter). **Notes**: ■ this option is automatically selected if the ESC power supply is a HVS 2000C type. ■ this value is a default value applied only when there is no process in progress (i.e. during a semi-automatic transfer). ■ during a process, this value is not used and the system sets the ESC alternation time set in the step in progress.

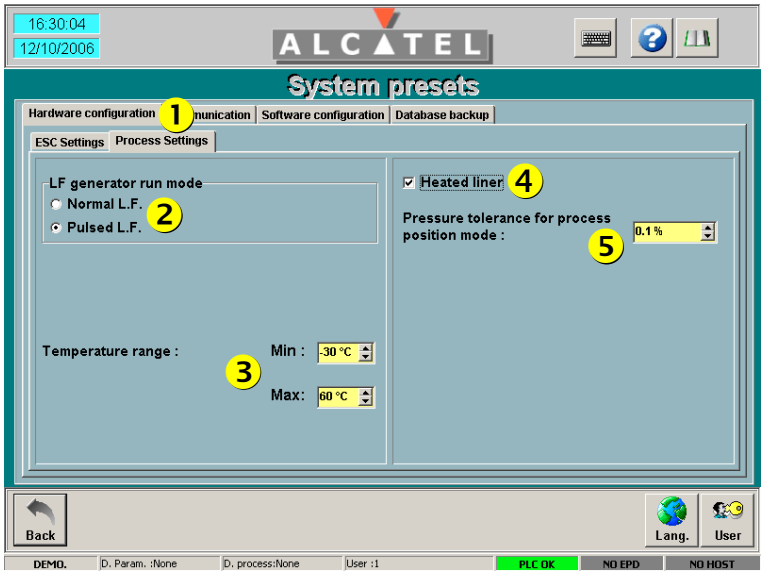
The System presets



Item	Designation	Signification
6		**Characteristic parameters of the HVS 2000C ESC power supplies:** ■ **Swing temporization**: Duration of the polarity change. It lets the voltage fall down because the polarity cannot be changed if the ESC voltage is present. ■ **Start polarity (Supply #1)**: Initial polarity of the ESC power supply # 1. ■ **Start polarity (Supply #2)**: Initial polarity of the ESC power supply # 2. ■ **Cycle start supply**: example: 

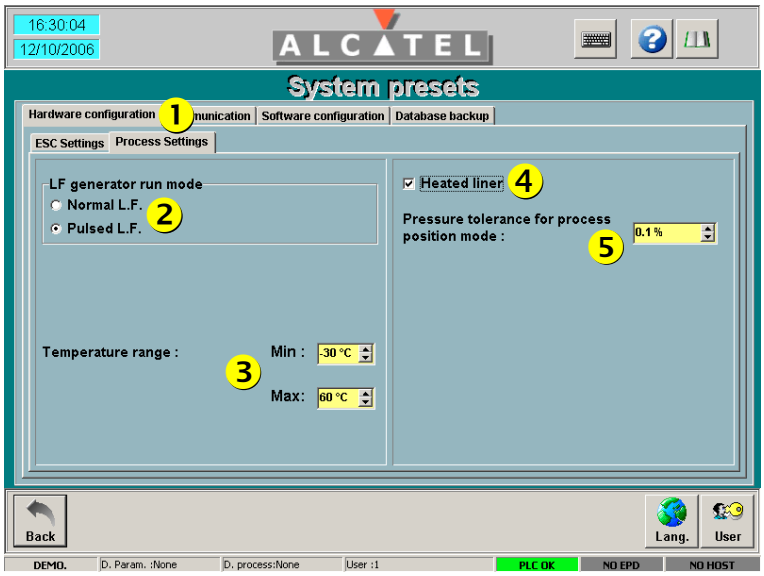
The System presets

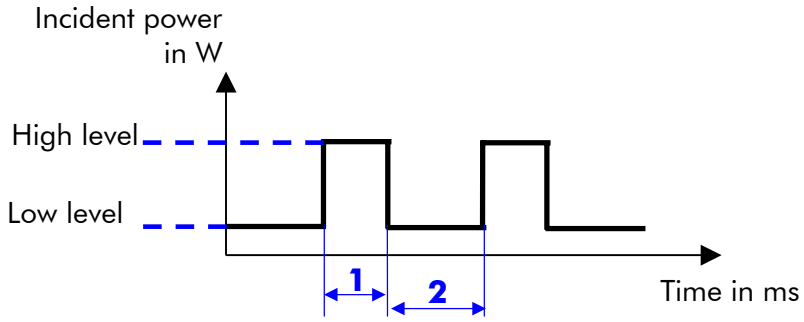
1-2 The "**Process Settings**" tab



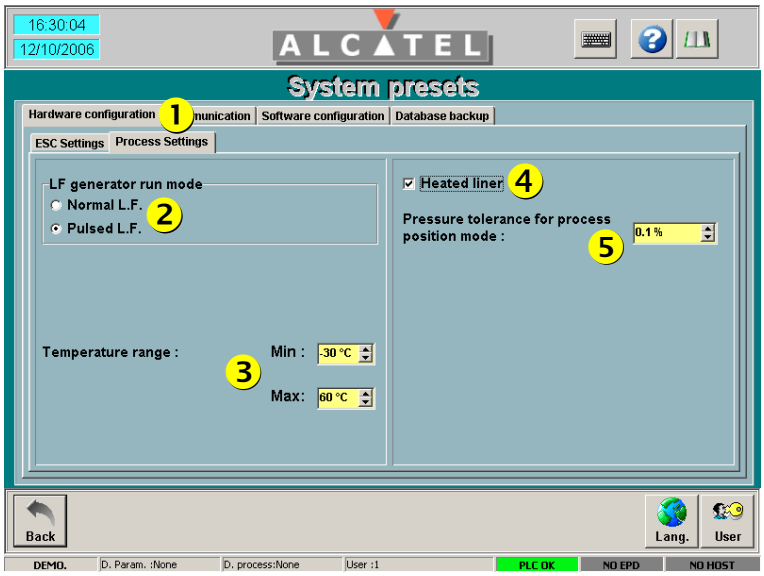
Item	Designation	Signification
1	Hardware configuration tab and Process Settings tab	Selection of the hardware parameters related to the process (LF generator, Heated Liner, Working temperature, Pressure Tolerance).

The System presets



Item	Designation	Signification
2	LF generator run mode	If your machine is equipped with a LF type generator, you have to choose its operating mode: ■ "**Normal**" mode: the incident power delivered by the generator is constant. ■ "**Pulsed**" mode: the incident power delivered by the generator is pulsed as follows:  **1**: High level duration **2**: Low level duration **Note**: the high and low levels for power and duration are set in the step edition window.

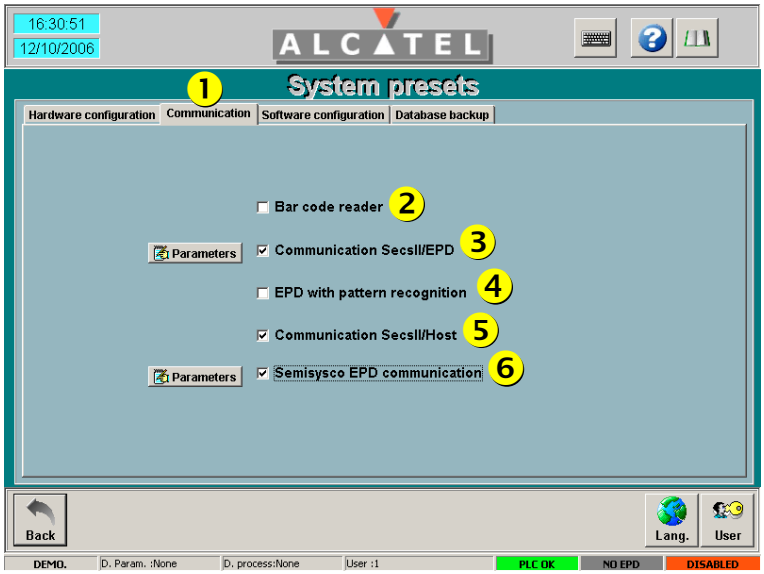
The System presets



Item	Designation	Signification
3	Temperature range	■ if your machine is equipped with a liquid nitrogen bottle, set: Min = - 180 ° C and Max = + 60 ° C ■ if your machine is equipped with a chiller, set: Min = - 30 ° C and Max = + 60 ° C
4	Heated liner	Check this option if your machine is equipped with a heated liner on the reactor.
5	Pressure tolerance for process position mode	The position of the throttle valve is adjusted to reach the pressure preset value. As long as the pressure value is equal to this preset value ± the pressure tolerance value (in percentage), the position of the throttle valve does not change.

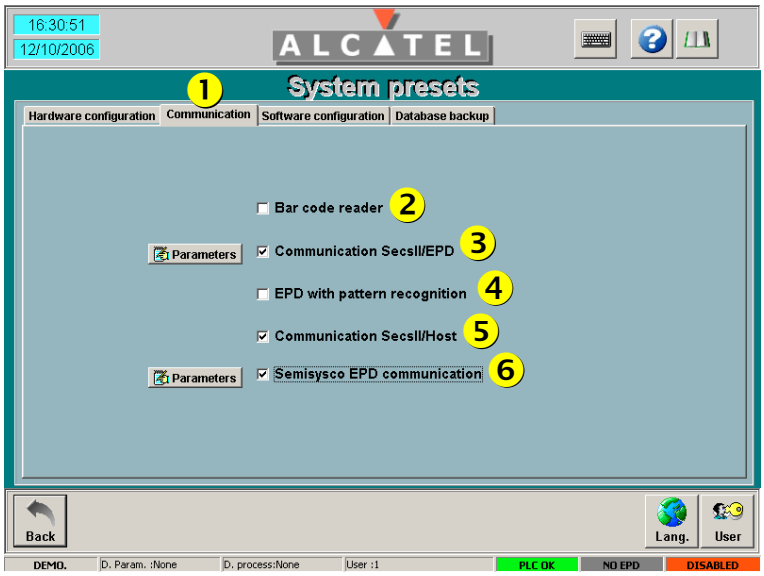
The System presets

2 - The communication parameters



Item	Designation	Signification
1	Communication configuration tab	Selection of the communication parameters.
2	Bar code reader	Check this option if you want to use a bar code reader to automatically enter the batch name of your cassette (only for the machines equipped with an atmospheric robot).
3	Communication SECSII / EPD	Check this option if the link between the EPD system and PC is a SECSII link. If you check this option, you must configure the communication parameters as follows: ■ serial port: COM3 ■ 9 600 bauds ■ Retry limit: 2 ■ Device ID: 0 ■ T1 = 1s, T2 = 5 s, T3 = 30 s and T4 = 25 s.

The System presets

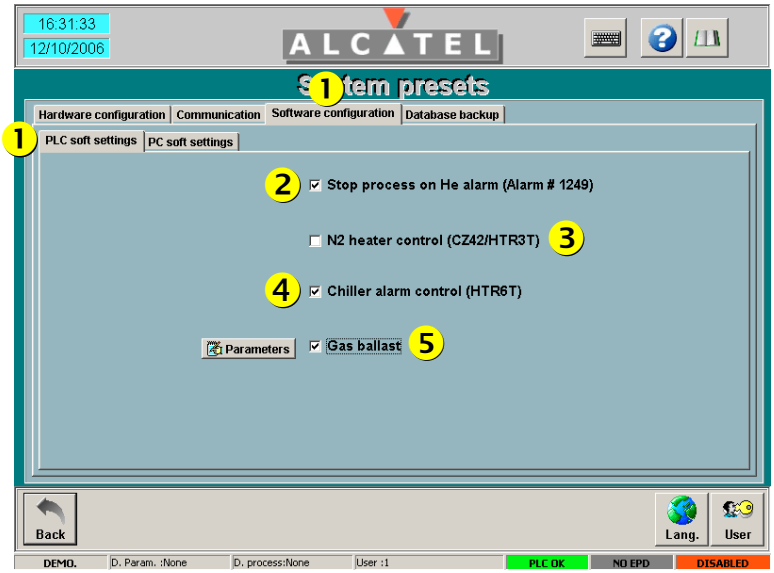


Item	Designation	Signification
4	EPD with pattern recognition	Check this option if your machine is equipped with an EPD system using pattern recognition.
5	Communication SECS II / Host	Check this option if you want to use a Host computer. When this option is unchecked, « **NO HOST** » is displayed in the status bar at the right bottom of the screen. When this option is checked, communication with Host computer is active. The state displayed in the status bar depends of the communication state between the Host computer and AMS200 application.
6	Semisysco EPD Communication	Check this option if your machine is equipped with an integrated EDP system controller. If you check this option, you must configure the communication parameters as follows: ■ **IP**: 10.1.0.10 ■ **Port**: 5000

The System presets

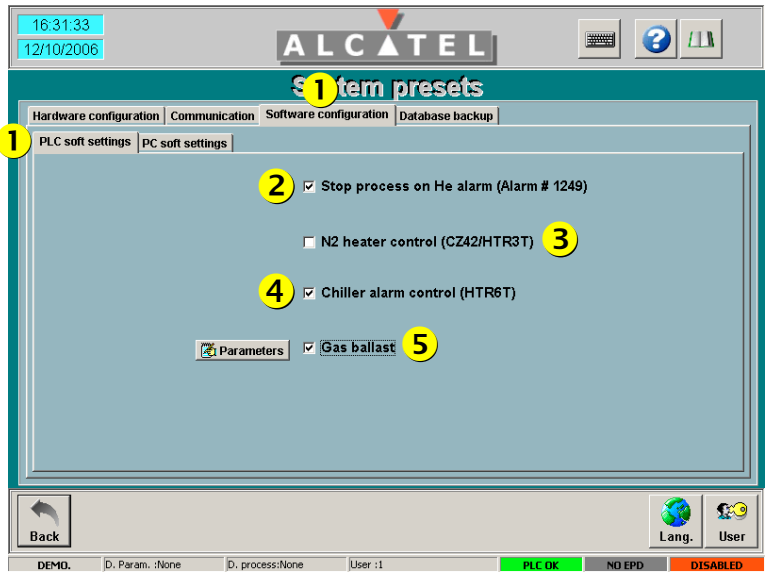
3 - The software parameters

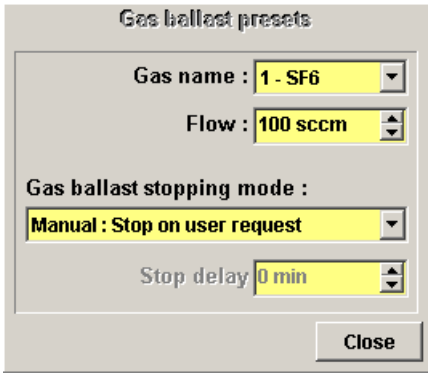
3-1 The "**PLC soft settings**" tab



Item	Designation	Signification
1	Software configuration tab and PLC soft settings tab	Selection of the software parameters related to the PLC.
2	Stop process on He alarm (Alarm #1249)	Check this option if you want to stop the current process if an anomaly has been detected about the He backside cooling pressure. In this case, a fault is triggered.
3	N2 heater control (CZ42 / HTR3T)	Check this option if your machine is equipped with a liquid nitrogen bottle.
4	Chiller alarm control (HTR6T)	Check this option if your machine is equipped with a chiller giving HTR6T feedback information (chiller OK).

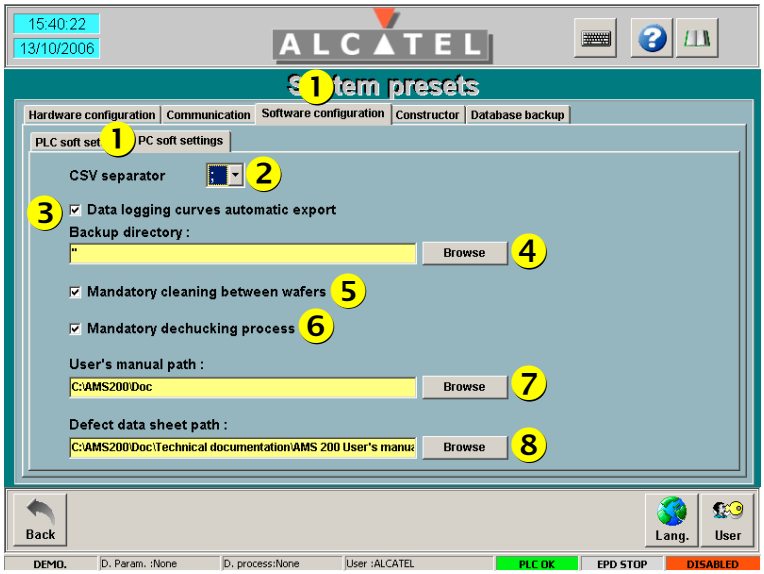
The System presets



Item	Designation	Signification
5	Gas ballast	Check this option to perform gas ballast during a transfer in automatic mode. If you check this option, click on the "**Parameters**" button. The following window is opening:  ■ choose which gas you want to use for ballast and its corresponding flow. ■ choose the way you want to stop gas ballast: either manually on your request or automatically at the end of batch processing, after the stop delay. **Note**: if you choose the "**Manual : Stop on user request**" option, you have to stop the function in semi-automatic mode.

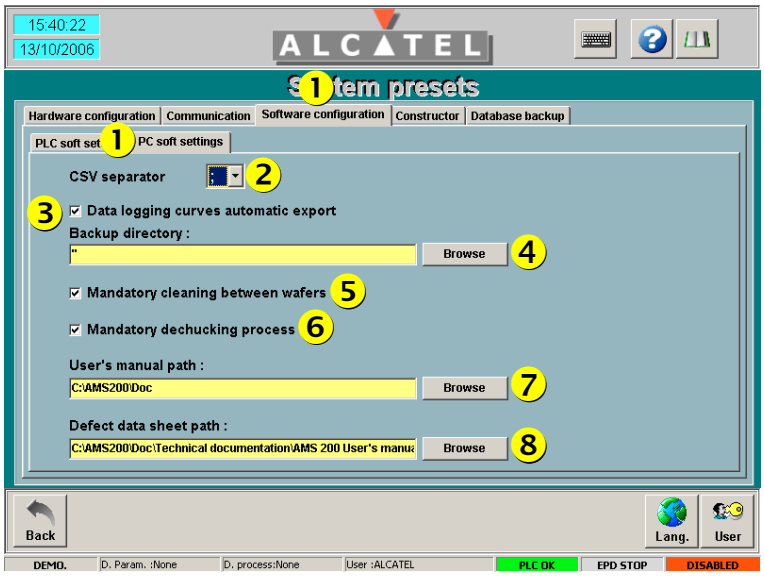
The System presets

3-2 The "**PC soft settings**" tab



Item	Designation	Signification
1	Software configuration tab and PC soft settings tab	Selection of the software parameters related to the PC.
2	CSV separator	Selection of the CSV separator type used when exporting the data logging files. Default value is "**;**".
3	Data logging curves automatic export	When this option is checked, the data logging curves are automatically saved to a text file (.csv extension) at the end of batch processing, in the directory selected in the combo box (item **4**). So, they can be used by a standard spread sheet software.
4	Back up directory	Combo box available only if the " **Data logging curves automatic export** " option (item **3**) has been checked. It allows you to select the directory in which the data logging curves will be saved at the end of batch processing.

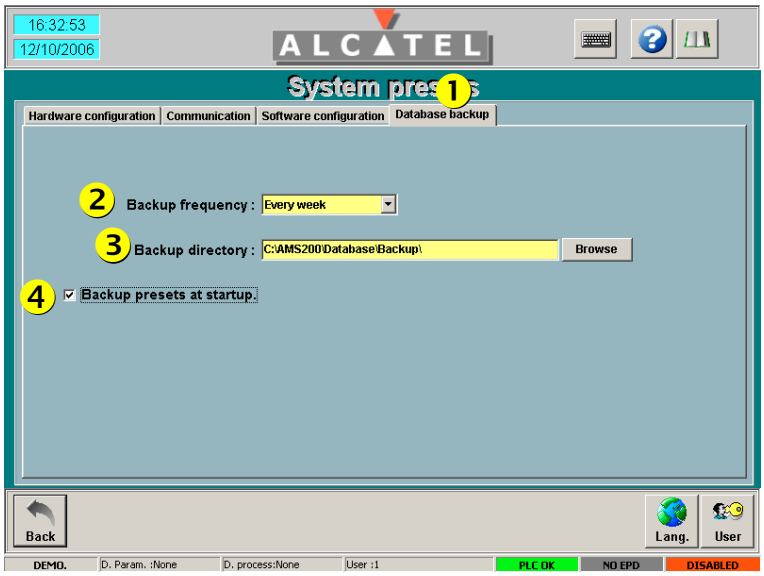
The System presets



Item	Designation	Signification
5	Mandatory cleaning between wafers	When this option is checked: ■ a cleaning recipe is automatically carried out after each etching recipe and after the dechucking recipe if it has been selected. ■ when you want to run a batch processing, you must select a cleaning recipe in the "**Run Process**" screen otherwise, you cannot launch the batch processing execution order.
6	Mandatory dechucking process	**Important**: this option is available only if your machine is equipped with an ESC PIN chuck. When this option is checked: ■ a dechucking recipe is automatically carried out after each etching recipe and before the cleaning recipe if it has been selected. ■ when you want to run a batch processing, you must select a dechucking recipe in the "**Run Process**" screen otherwise, you cannot launch the batch processing execution order.
7	User's manual path	This combo box allows you to define the directory in which the machine user's manual will be saved.
8	Defect data sheets path	This combo box allows you to define the directory in which the defect data sheets will be saved.

The System presets

4 - Database backup



Item	Designation	Signification
1	Database backup configuration tab	Selection of the backup parameters.
2	Backup frequency	Specifies how often you want to automatically save the AMS 200 database.
3	Backup directory	Selection of the directory in which the AMS 200 database file will be saved.
4	Backup presets at startup	When this option is checked, the AMS 200 database is automatically saved whenever the AMS 200 application is launched.