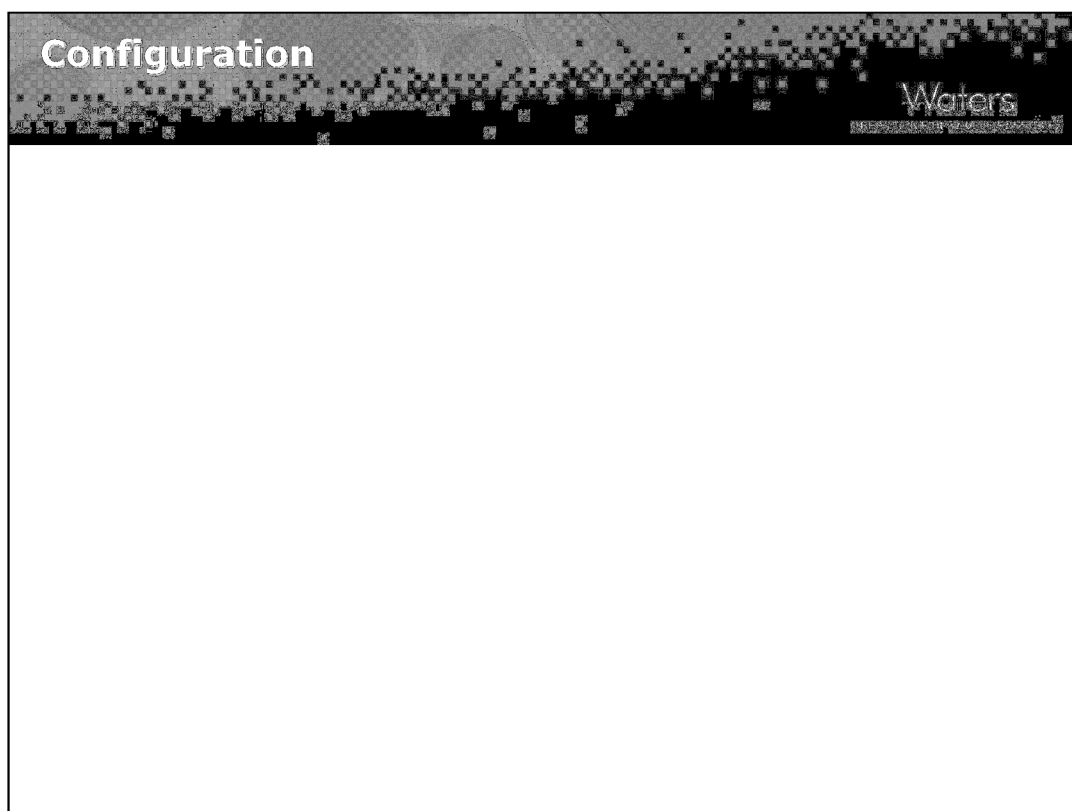
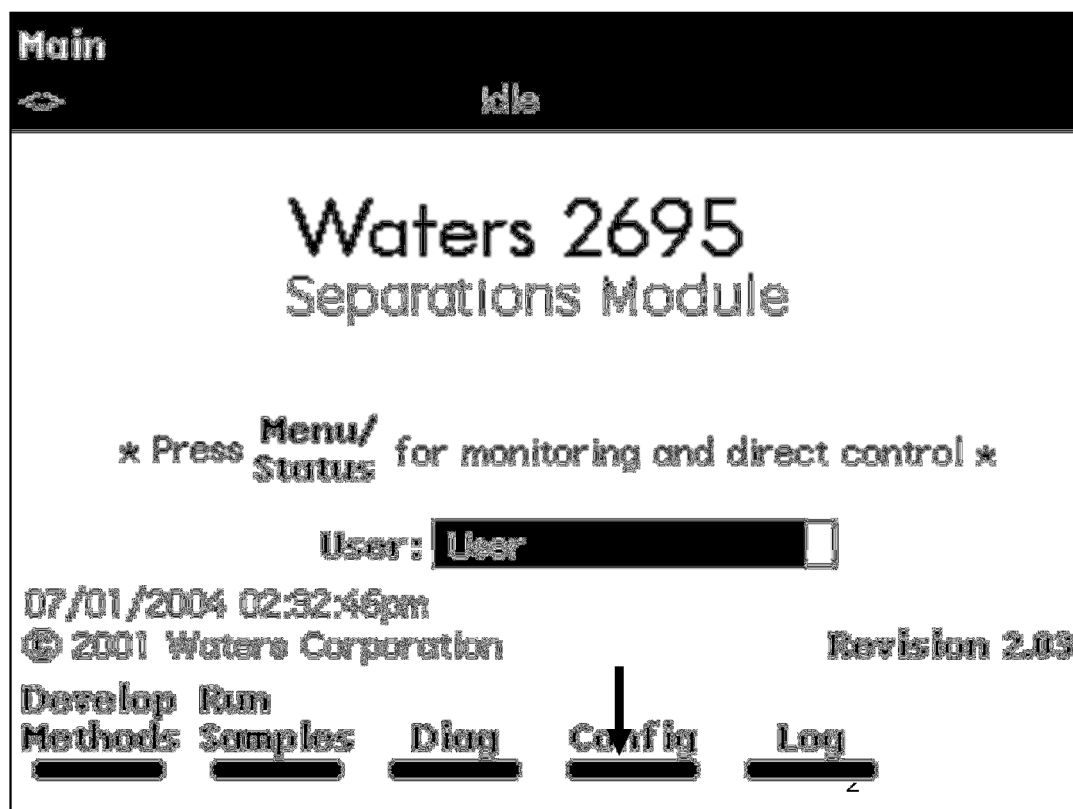






- Before using the Separations Module, a variety of operating parameters may need to be configured. The Configuration screen is used to:
 - Set up the Separations Module for the first time
 - Change the configuration of the Separations Module
 - Add, change, or delete a user
 - Reset the clock
 - Press Config, the configuration page is displayed

Configuration

Idle

Syringe Size: μ L Loop Size: μ L ☒ Verify vial presence
☒ Verify carousel placement

 IEEE 488 Address:
 Generated by Millennium 32

Printer: Date Format: Alarm Sound:

Baud Rate: Pressure Units:

Reports Comp Check Options Auto-Shutdn Events In More

- Syringe Size dialog box - Select the syringe size installed in the Separations Module.
- The 250 μL syringe is standard. Optional sizes are 25 μL and 2500 μL .
- Verify the volume of the physical syringe and the volume displayed in the Syringe Size: match.

Configuration

Idle

Syringe Size: μL Loop Size: μL ☒ Verify vial presence
☒ Verify carousel placement

System IEEE 488 Address:

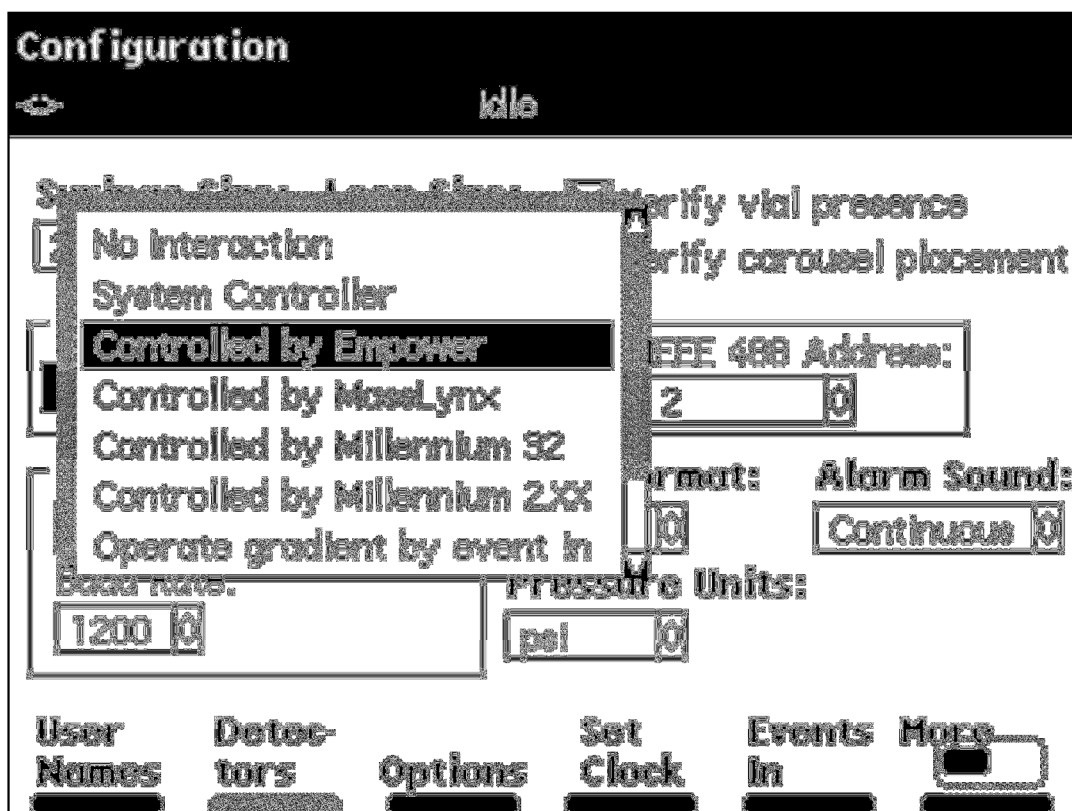
Printer Baud Rate:

Date Format: Alarm Sound:

Pressure Units:

Reports Comp Check Options Auto-Shutdown Events In More

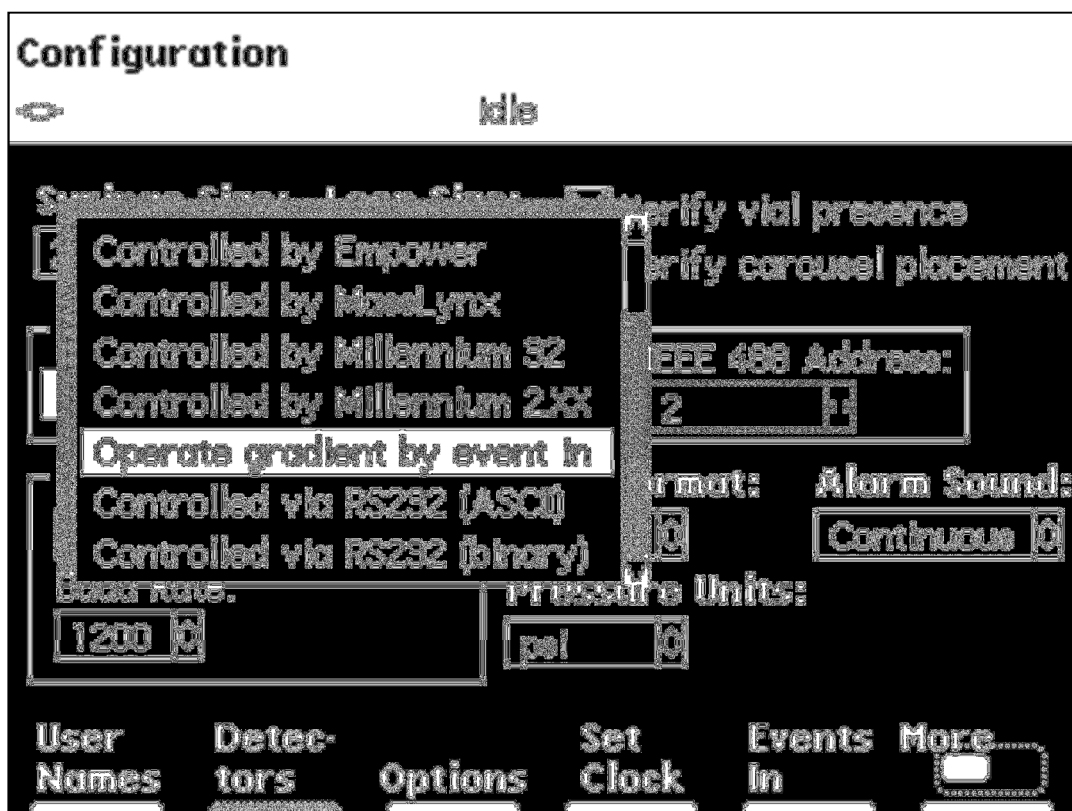
- The Loop Size: will accept any value from 0 to 999999 μL .



- System dialog box - Select the appropriate operating mode.
- No Interaction - Use for standalone operation.
- System Controller - Use for standalone operation when controlling Waters detectors over the IEEE-488 interface.
- Controlled by Empower - Use when Empower software controls the HPLC system.
- Controlled by Millennium32 - Use when Version 3.2 or higher controls the HPLC system.
- Controlled by MassLynx - Use when MassLynx software (Version 3.5 or higher) controls the HPLC system.
- Controlled by Millennium 2.XX - Use when Version 2.xx, controls the HPLC System.
- Operate Gradient by Event In - Use when an auto sampler (external to the Separations Module) initiates a chromatographic run by contact closure.

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- Controlled via RS232 (binary) - Use when a non-Waters or non-Micromass data system controls the Separations Module by RS-232 communications, using binary protocol.
- Controlled via RS232 (ASCII) - Use when a non-Waters or non-Micromass data system controls the Separations Module by RS-232 communications, using ASCII protocol.

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Configuration
 <Default> Idle

Syringe Size: μ L Loop Size: μ L ☒ Verify vial presence
☒ Verify vial placement

System: Address:

Printer: Baud Rate: Date For: Alarm Sound:

Pressure Units:

User Names Detectors Options Set Clock Events In More

- IEEE 488 Address: dialog box.

Note: Address #1 is not recognized as a valid IEEE-488 address by Millennium.

Configuration
 <Default> Idle

Syringe Size: μ L Loop Size: μ L ☒ Verify vial presence
☒ Verify carousel placement

System: IEEE 488 Address:

None
 746 Integrator
 RS232 Serial Printer
 BCD Output

Date Format: Alarm Sound:
 Pressure Units:

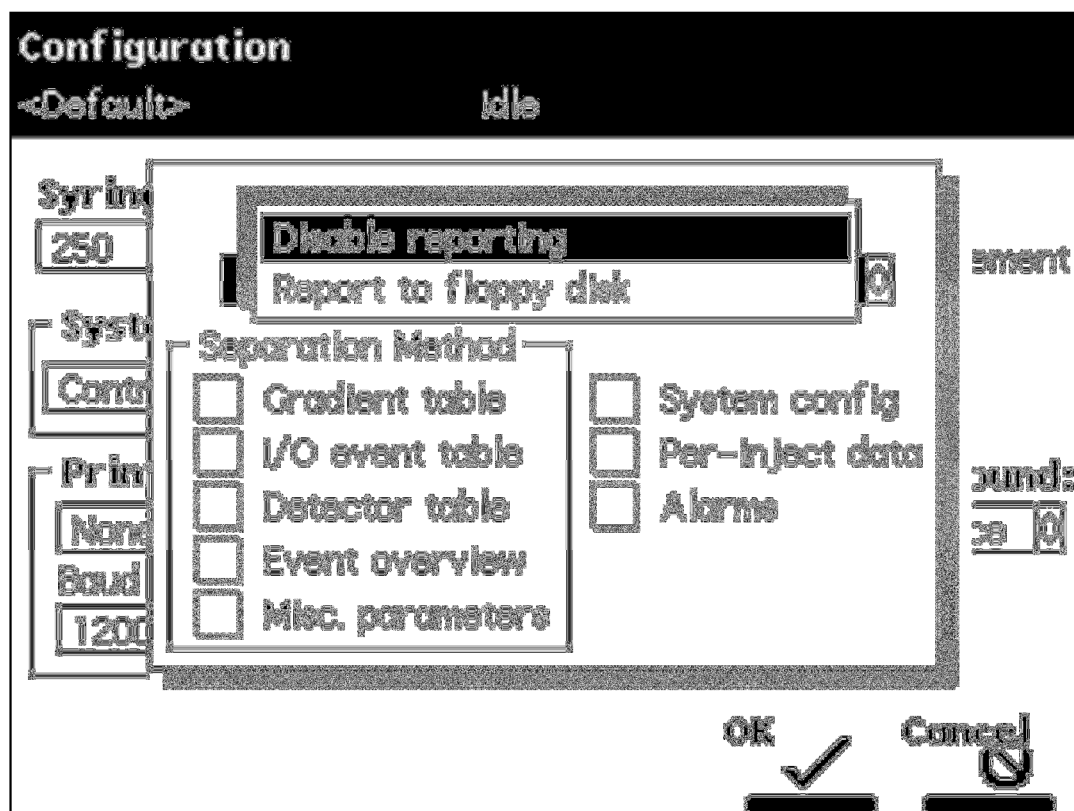
User Names Detectors Options Set Clock Events In More

- Printer dialog box - Selects the type of printer and the baud (data transfer) rate.

Note: If you set the printer to "None", you must select "Disable Reporting" in the Report Options dialog box.

Configuration			
 Waters			
Syringe Size: 250 0 μL	Loop Size: 100 μL	☒ Verify vial presence ☒ Verify carousel placement	
System			
Controlled by Empower 0		EEP 408 Address: 2 0	
Printer		Date Format: MDY 0	Alarm Sound: Continuous 0
Name: 0 1200 0 2400 0 9600 0		Pressure Units: psi 0	
User Names 	Detectors 	Options 	Set Clock
Events In 		More 	

- The Baud rate is selectable between 1200, 2400, or 9600.
- The baud rate set on your printer and the Alliance must match.



- Report Options dialog box. - Select any option and press any numeric key to enable or disable the option
- Press **Enter**. An "X" in the box indicates the option is enabled.

Configuration
 <Default> Idle

Syringe Size: μ L Loop Size: μ L ☒ Verify vial presence
☒ Verify carousel placement

System IEEE 488 Address:

Printer Baud Rate:

Date Format: ☒ MDY ☐ DMY Alarm Sound:

Pressure Units:

User Names Detectors Options Set Clock Events In More

- Date Format dialog box - Select either month-day-year (USA style) or day-month-year (rest of world)

The screenshot shows a 'Configuration' window with a title bar. Below the title bar, there are two tabs: '<Default>' and 'Idle'. The 'Idle' tab is selected. On the left side of the 'Idle' tab, there are several configuration options: 'Syringe St' with a value of '250', 'System' with a dropdown menu showing 'Controlled', 'Printer' with a dropdown menu showing 'None', and 'Baud Rate' with a value of '1200'. In the center, a 'Set Clock' dialog box is open. This dialog box has fields for 'Date' (mon: 01, day: 14, year: 02) and 'Time' (hour: 20, min: 05, sec: 40). Below these fields, it displays 'Now: 01/14/2002 08:06:25pm'. To the right of the 'Set Clock' dialog, there are additional options: 'Alarm Sound' with a dropdown menu showing 'go once' and a volume icon, and a 'Set' button with a checkmark icon and a 'Cancel' button with an 'X' icon.

- Set Clock Dialog Box - Set current date and time.

Note: Time is set by 24 hour clock but displayed as a 12 hour clock.

- Press **Set**

Configuration

Idle

Syringe Size: μ L Loop Size: μ L ☒ Verify vial presence
☒ Verify carousel placement

System: IEEE 488 Address:

Printer: Baud Rate:

Date Format: Alarm Sound:

Units:

Reports Options Events More

- Pressure Units dialog box - Pressure can be displayed in psi, bar, or kPascal.
- 14.5 psi = 1 bar
- 1 psi = 6.895 kPascal

Configuration

<Default> Idle

Syringe Size: 250 µL Loop Size: 100 µL

☒ Verify vial presence
☒ Verify carousel placement

System

Controlled by Millennium 32 IEEE 488 Address: 8

Printer

None Baud Rate: 1200

Date Format: MDY

Pressure Units: psi

Beep once
Continuous

User Names Detectors Options Set Clock Events In More

- Alarm Sound dialog box - Select Beep once or Continuous

Configuration
 <Default> Idle

Syringe Size:
 μL

System

Printer

Baud Rate:

Users

User

Name 1 of 1

presence
cuvet placement

Address:

Alarm Sound:

Add 
Remove 
Change 
OK 
Cancel 

- User names screen. User name is only helpful in the standalone mode.
- Press **Add**, the text entry screen is displayed.

Configuration
 <Default> Idle

Syringe Size: 250 0 µL

System: Users

Controlled by: [Blank]

Printer: None

Baud Rate: 1200

New User Name: [Blank]

Name 1 of 1

presence: [Blank]

cuvet placement: [Blank]

Address: 0

Alarm Sound: Beep once 0

More [Blank]

ABCDEF GHIJKL MNOPQR STUVWX YZ-%/: [Blank]

- To enter a name, press the screen key for the appropriate letter group, that group expands.
- For example, press the GHIJKL screen key.

Configuration
 <Default> Idle

Syringe Size: 250 0 µL

System: Controlled by

Printer: None

Baud Rate: 1200 F

Users

User

presence
cuvet placement

address: 0

Alarm Sound: Beep once 0

Name 1 of 1

G H I J K L

- The expanded GHIJKL screen.
- Press the appropriate letter, you will return to the text entry page.

Configuration kilo

Syringe Size: µL

System

Controlled by:

Printer

Baud Rate:

Users

New User Name:

Name 1 of 1

presence

coul placement

address:

Alarm Sound:

ABCDEF **GHIJKL** **MNOPQR** **STUVWX** **YZ-*/:** **More**

- The letter K was entered and the screen returned to the first text entry page.
- Press the More screen key.

Configuration
 <Default> Idle

Syringe Size: 250 0 µL

System: Controlled by

Printer: None

Baud Rate: 1200

Users

presence
cuvet placement

address: 0

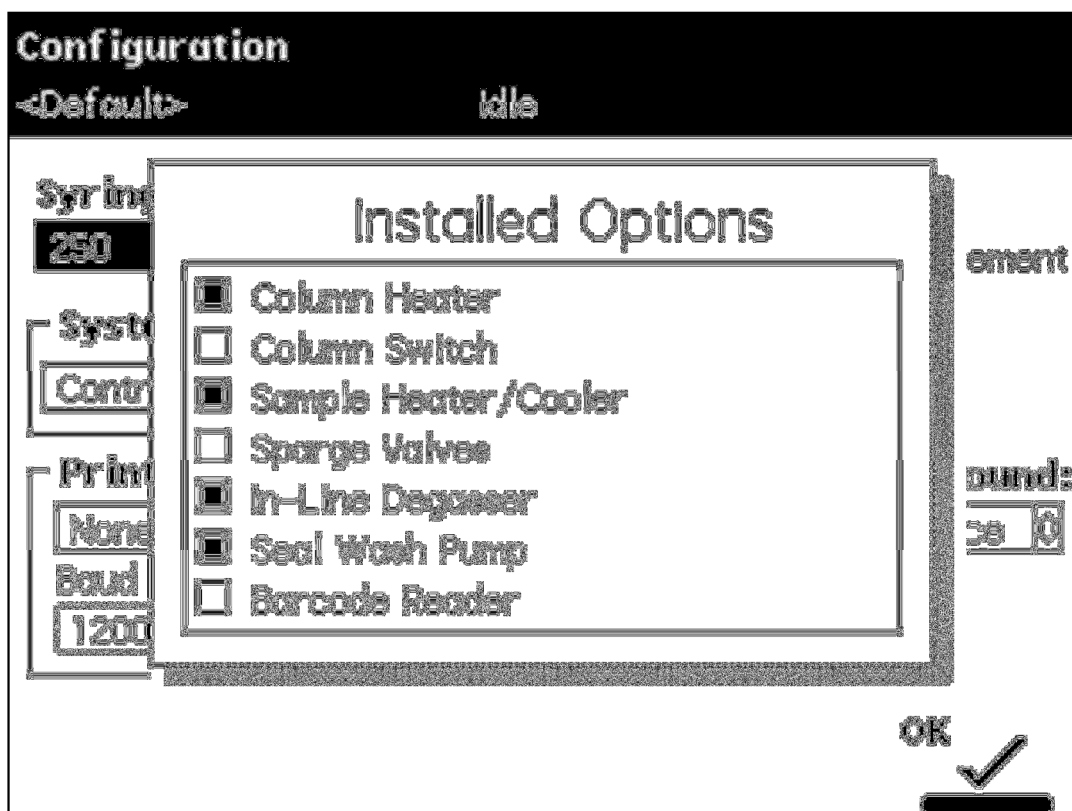
Alarm Sound: Beep once 0

New User Name: 1

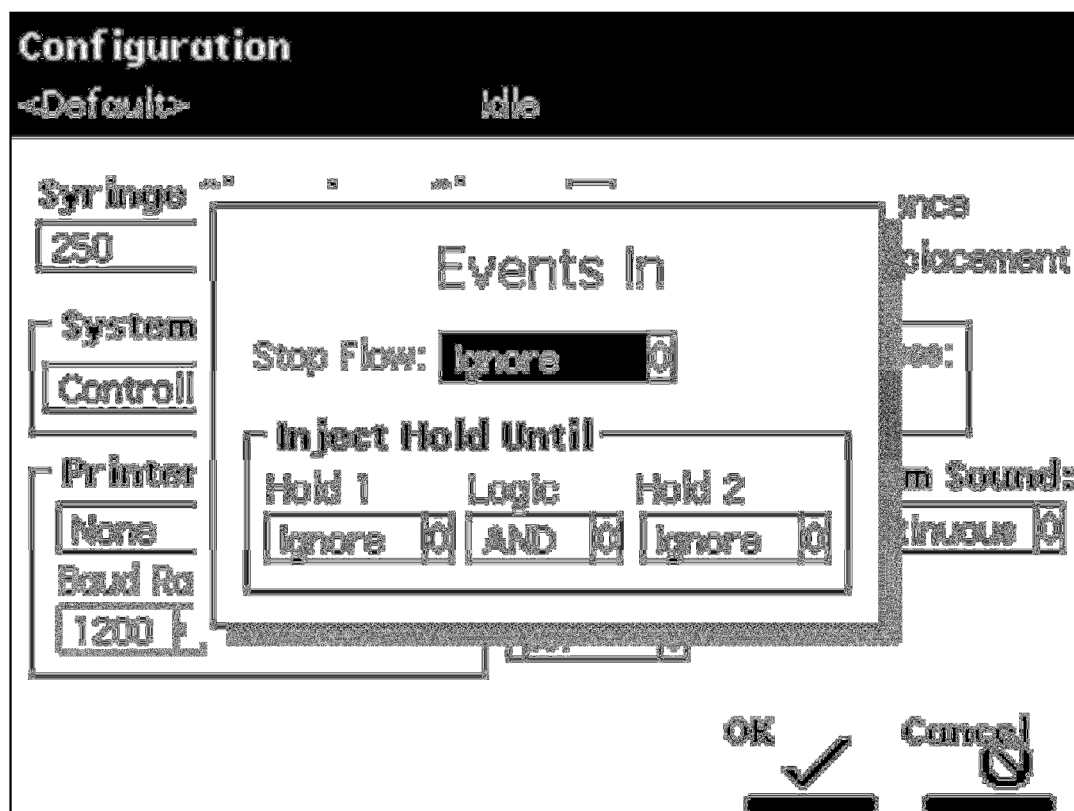
Name 1 of 1

Back-space Over-strike Lower-case More

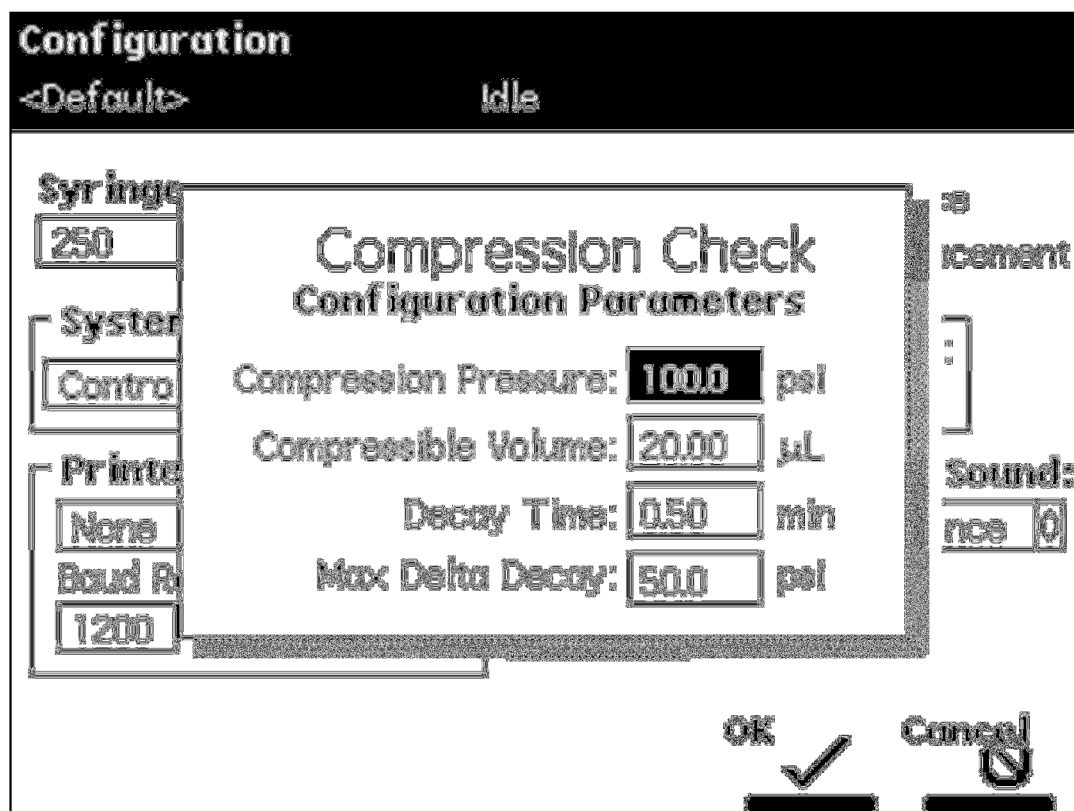
- This screen allows you to backspace, overstrike, or use lowercase letters in a text field.



- Installed Options screen. This is a display only screen.
- Displays a list of the hardware options installed in the Separations Module.



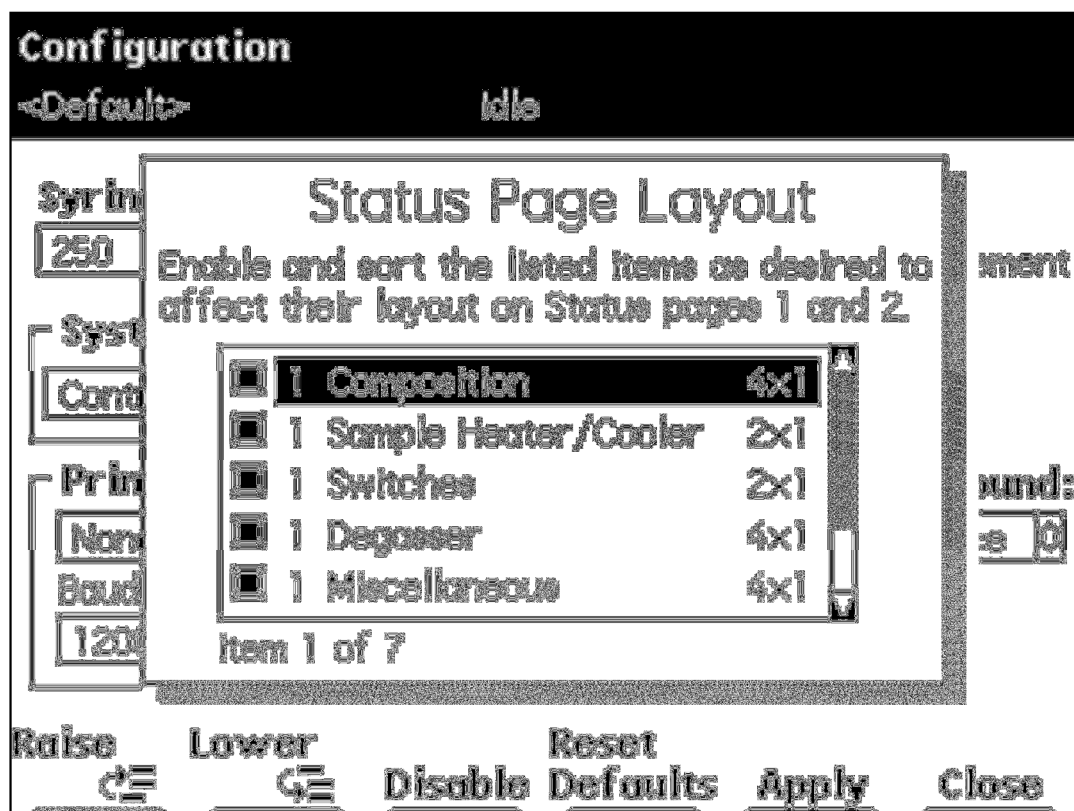
- Events In Dialog Box - Specifies the external signal conditions to enable Stop Flow and Inject Hold.
- Choices on pull down menus are Ignore, High, Low (TTL Logic).
- Logic choices are AND, OR
- Press OK, More and Compression Check.



- Compression Check Dialog Box - Specifies criteria for the compression check.

<u>Function</u>	<u>Range</u>	<u>Typical</u>
Compression		
Pressure	30 - 300 psi	100 psi
Compressible Volume -		
25 µL syringe	1 - 15 µL	15 µL
250 µL syringe	5 - 30 µL	20 µL
2500 µL syringe	5 - 100 µL	50 µL
Decay Time -	0.1 - 5.0 min	1.0 min
Maximum Delta Decay -	10 - 100 psi	<50 psi

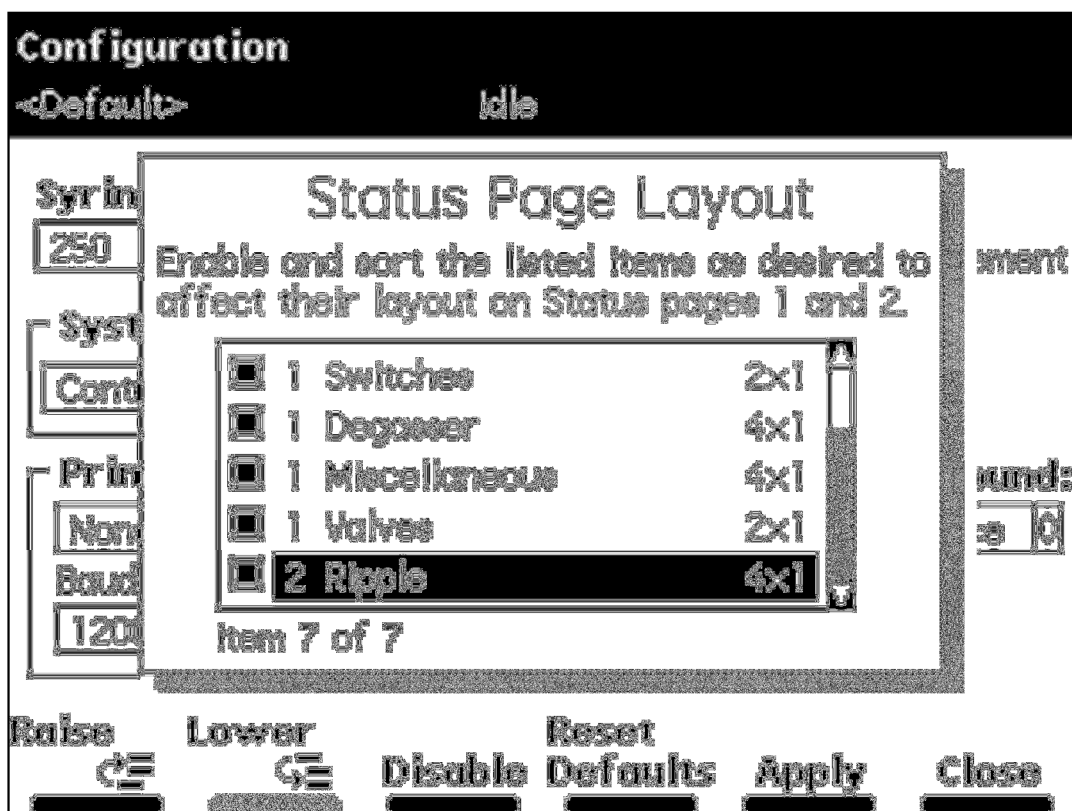
- Press OK



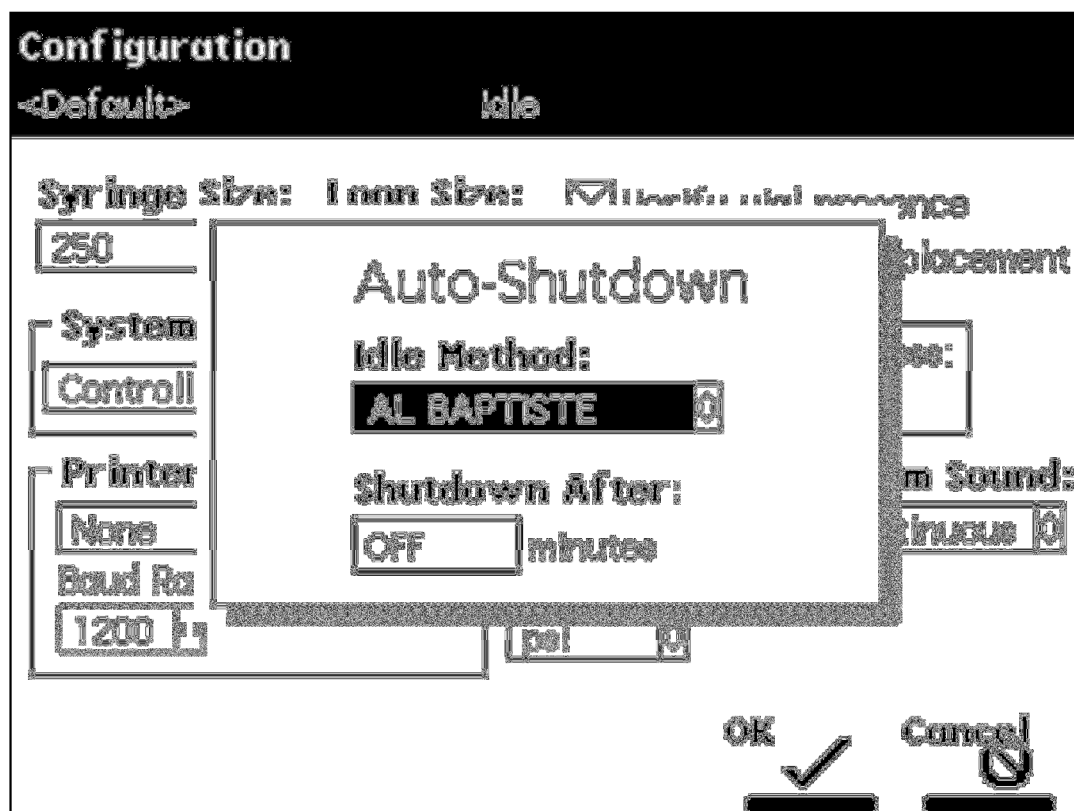
- Status Page Layout dialog box - Allows you to enable (see) or disable (hide) various status boxes on the Status Page. Boxes can be raised or lowered as to placement on the Status Pages.
- Highlighting a status box using the cursor arrows on the front panel and press a numeric key to toggle enable/disable.

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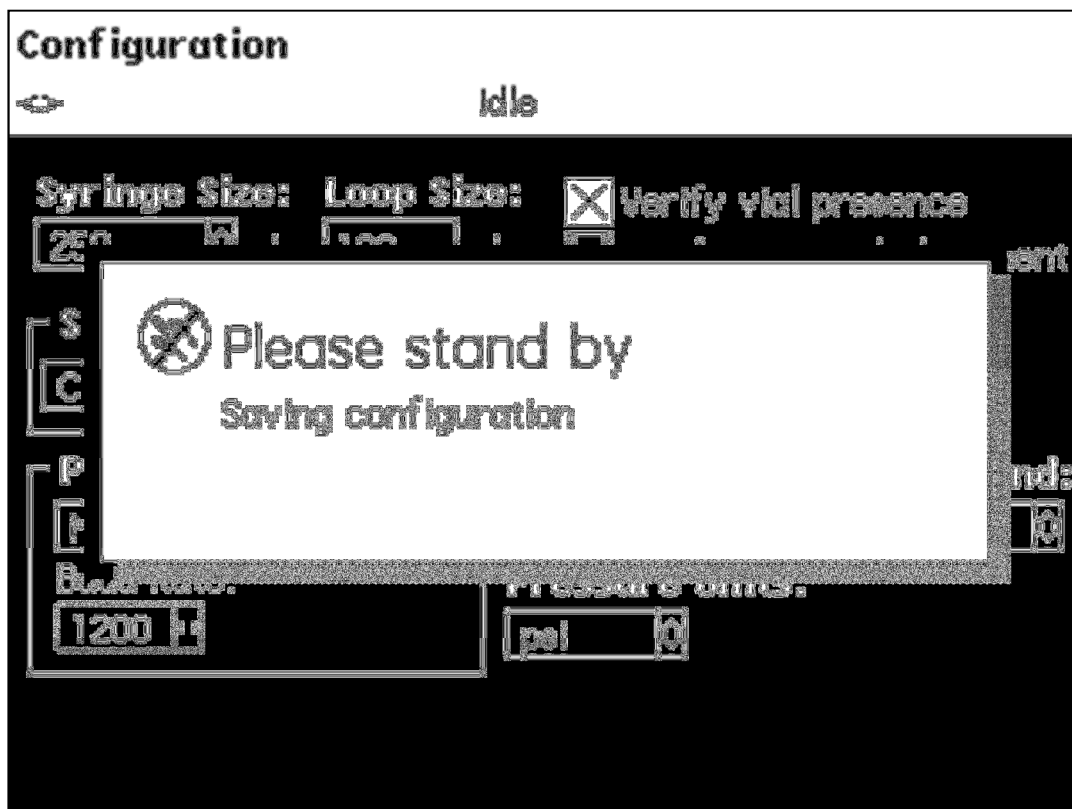
- The Status page Layout menu scrolled to see the last two choices.



- Auto-Shutdown dialog box - Select the separation method to be used while the Separations Module is shut down.

Note: Only the initial conditions in the method you select are used.

- Press **OK**, then **Exit**.



- When you exit from Configuration, this message appears.