

Launch a sample collection in "Label for Petri dishes" mode only

Note: To activate "Action" mode, press a key on the alphanumeric keypad.

In the Home menu:

1. Select Samplings to launch.
2. Press F4 to continue.
3. The "Scan or select a location" menu is displayed on the screen.
4. Press ▶ to display the "All Buildings" menu.
5. Press ▲ ▼ to find a building.
6. Press ▶ to proceed to the next field.
7. Press ▼ to display the "All Rooms" drop-down menu and press ▲ ▼ to find a room and on ▶ to select.
8. Press F4. The sampling location is displayed.
9. Press ▲ ▼ to select a sample collection (if necessary).
10. The "Scan the sampling support label" screen is displayed.
11. Place the barcode reader next to the barcode on the **label on the Petri dish**.
12. Press SCAN.
13. If environmental variables need to be entered (temperature, pressure and humidity), the screen "Enter the environment properties" is displayed. Enter the properties and press F4 to continue.



IMPORTANT! When entering a value, check the units.

14. The screen "Enter the Petri dish properties" is displayed. Place the barcode reader next to the **barcode on the Petri dish**.
15. Press SCAN and press F4 to continue.

Use

Starting a sampling campaign

Note: It is possible to enter the lot number and expiry date manually using the keypad (see Keys and symbols, page 4-2).

16. Place the Petri dish in the ABC (see the User Manual for the AeroBioCollector). Turn the ABC on.
17. Place the barcode reader next to the ABC barcode .
18. Press  to scan the ABC MAC address.
19. The MAC address is verified.
20. Launch sampling: the remote control displays a countdown prior to launch. On launch, the collection is transferred to the "Sampling in Progress" list. See the section on Samples in progress, page 4-25.
21. After sampling is launched, the LED on the ABC should turn green and flash (if it does not, please refer to the AeroBioCollector manual). Press  to exit the menu.

IMPORTANT! *Sample collection launched on a target ABC can only start after the previous sample collection on that ABC has closed.*

Note: To display the details of a sampling, see Example screen detail display, page 4-9.

If there is a problem with the connection between the RUID and the AeroBioCollector (ABC), please follow the instructions in Manual launching in case of a connection problem, page 4-17.

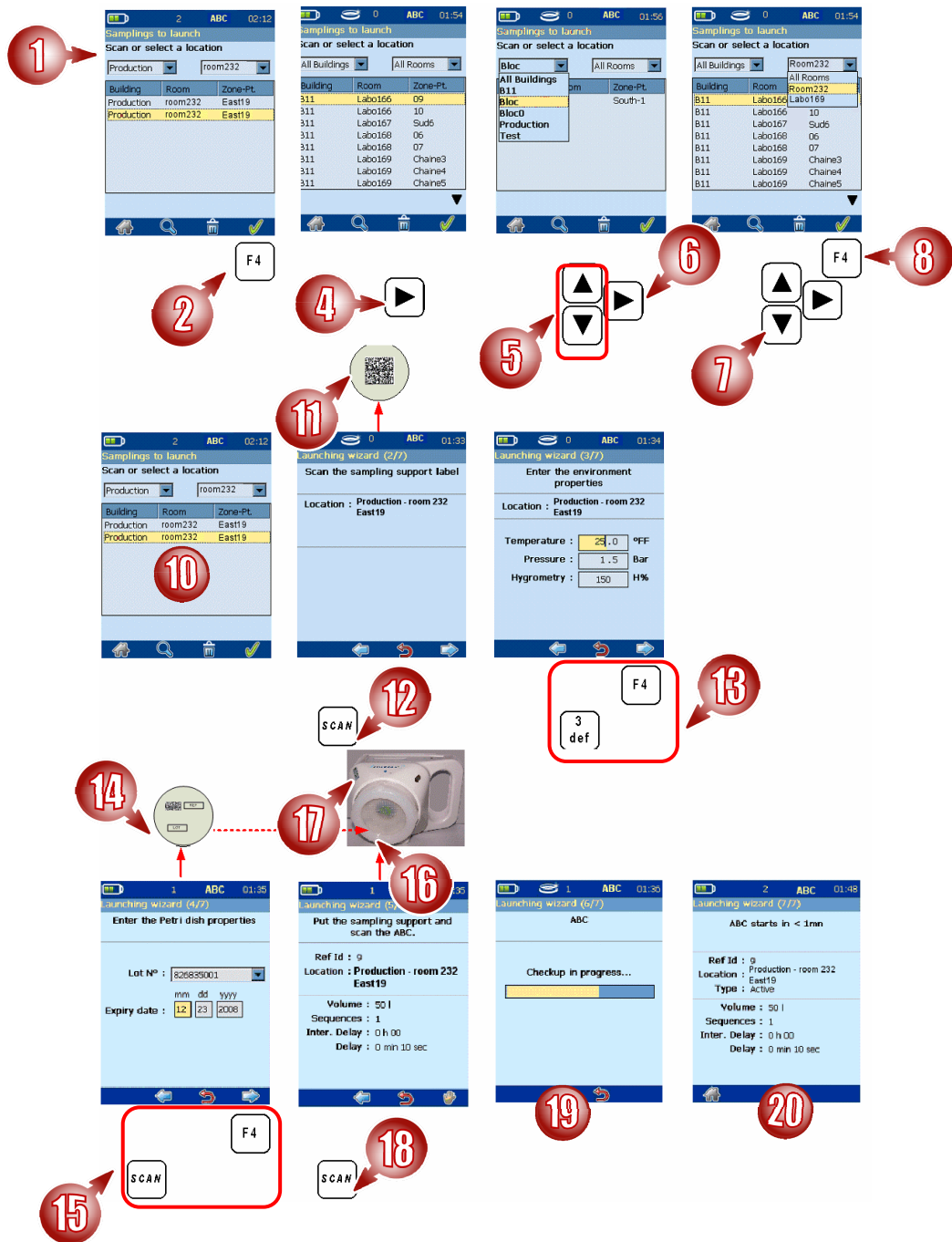


Figure 4-12: Example of a sample collection in "Label for Petri dishes" mode

Use

















Starting a sampling campaign

Launch a sample collection in "no labels" mode





The following example uses the "no labels" mode only (see Management of sample collections to launch, page 4-15).

Note: To activate "Action" mode, press a key on the alphanumeric keypad.

In the  menu:

1. Select .
2. Press  to continue.
3. The "Scan or select a location" menu is displayed on the screen.
4. Press  to display the "All Buildings" menu.
5. Press   to find a building.
6. Press  to proceed to the next field.
7. Press  to display the "All Rooms" drop-down menu and press 
 to find a room. Next, press  to proceed to the list of sample collections.
8. Press   to find a sample collection.
9. Press .
10. The "Note the sampling Refid on the Petri dish" screen displays the value "Refid". Note the sampling identification reference on the Petri dish. Press .
11. If environmental variables need to be entered (temperature, pressure and/or humidity), the screen "Enter the environment properties" is displayed. Enter the properties using the keypad and press  to key to navigate between fields.
12. Set the variables and press  to continue. (press the key twice if necessary).

IMPORTANT! *When entering a value, check the units.*

13. The screen "Enter the Petri dish properties" is displayed. Enter the information on the Petri dish using the keypad and use the  key to navigate between fields or scan the barcode printed directly on the Petri dish.
 14. Press .
- Note:* It is possible to enter the lot number and expiry date manually using the keypad (see Keys and symbols, page 4-2).
15. Place the Petri dish in the ABC (see the User Manual for the AeroBioCollector). Turn the ABC on.
 16. Place the barcode reader next to the ABC barcode.
 17. Press  to scan the ABC MAC address.
 18. The MAC address is verified.
 19. Launch sampling: the remote control displays a countdown prior to launch. On launch, the sample collection is transferred to the "Samplings in Progress" list. See section on Samples in progress, page 4-25.
 20. Launching a sample collection: the sample collection is transferred to the "Samplings in Progress" list. See section on Samples in progress, page 4-25.
 21. Press  to exit the menu.

IMPORTANT! *Sample collection launched on a target ABC can only start after the previous sample collection on that ABC has closed.*

Note: To display the details of a sample collection, see Example screen detail display, page 4-9.

If there is a problem with the connection between the RUID and the AeroBioCollector (ABC), follow the instructions in Manual launching in case of a connection problem, page 4-17.

Use

Starting a sampling campaign

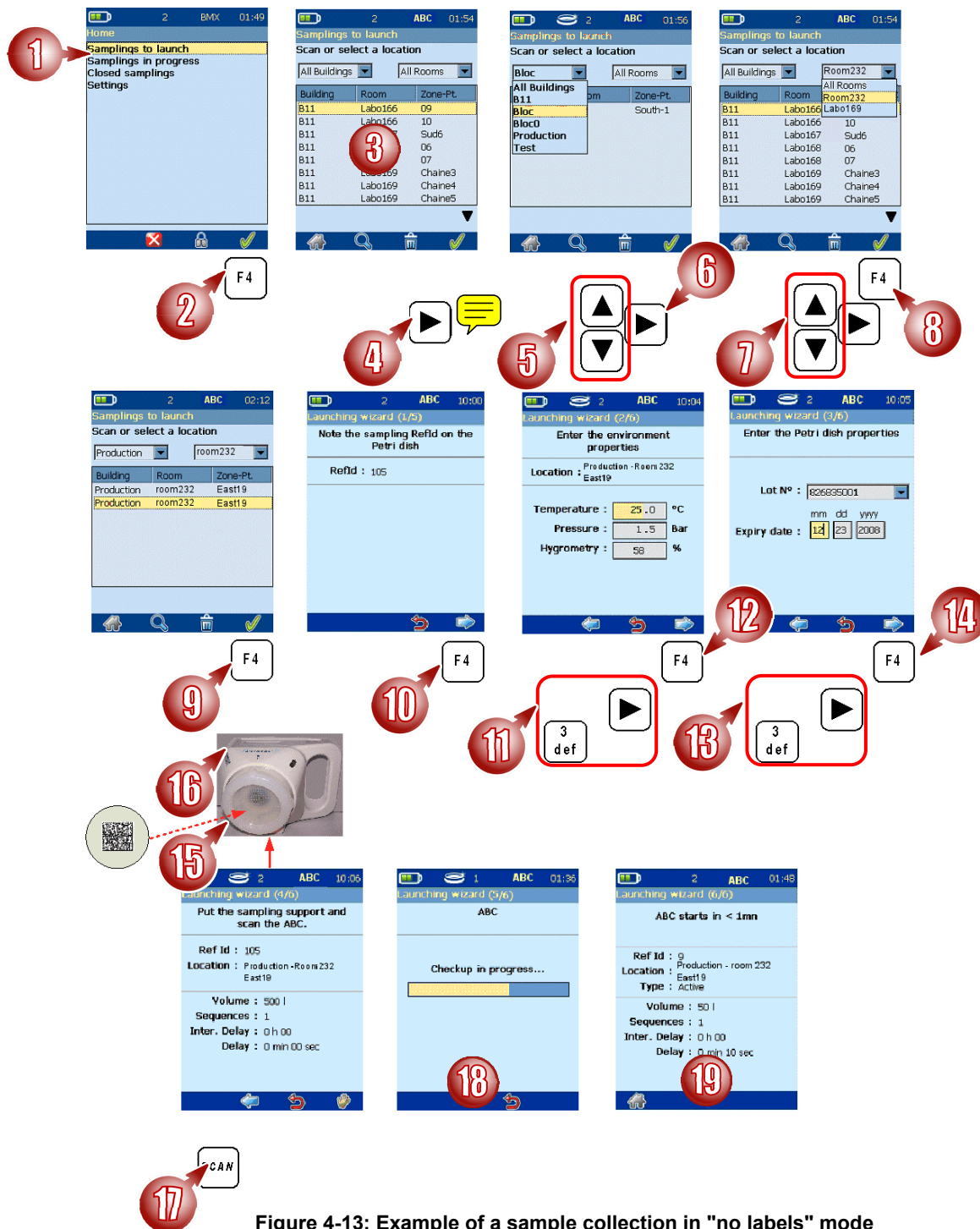









Figure 4-13: Example of a sample collection in "no labels" mode

Samples in progress

After launch, the sample collection is displayed in the "Samplings in progress" menu and disappears from the "Samplings to launch" menu.

On the **Samplings in Progress** screen:

1. Number of sample collections not closed.
2. Samplings in progress: icon flashes until sample processing is complete and remains active until the sample collection is closed (can be configured from the **airDEAL® 3P™ Traceability software**; see the User Manual).
3. Closed sample collections:
successful 
failed 
4. Select a sample collection: press   to search.
5. Press  to display sampling detail (the detail screen is displayed. Press  to go back to the list).
6. Press  to confirm. The screen **Closing Wizard (1/4)** is displayed.
7. For other possible actions, see Action bar, page 4-12.

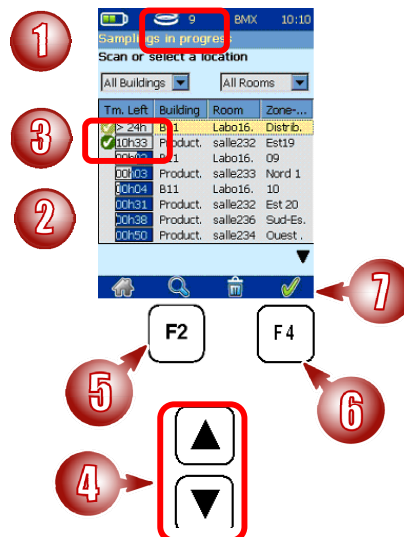


Figure 4-14: Samplings in progress

Closing samplings

On the **Samplings in Progress** screen,

1. Remove the Petri dish from the instrument and replace the lid.
2. Press **SCAN** to scan the barcode on the label on the Petri dish (in label mode only).

Note: In "no labels" mode, it is possible to press **F4** to close without scanning a barcode.

3. Enter a comment if necessary.
4. Press **F4** to continue.
5. The RUID retrieves the sampling report from the ABC.

Note: If case of manual launch, the screen "Enter manually the sampling result" is displayed. Select the result status in the list (Success, Cancelled, Error).

6. The summary of the closing report is displayed.
7. Press **F4** to return to the main screen.

Note: If the barcode on the Petri dish does not match the selected sample collection, an error message is displayed.

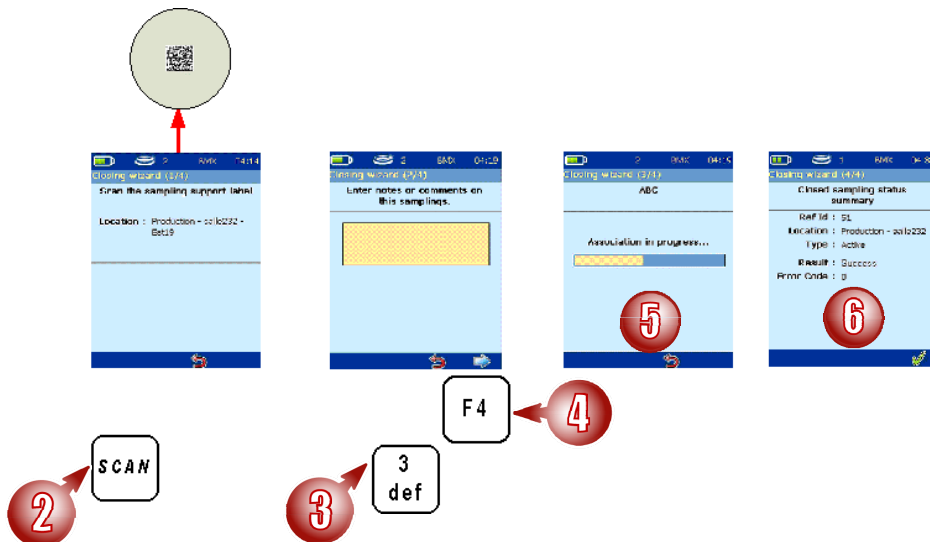


Figure 4-15: Closing samplings












IMPORTANT! Close all sample collections before switching off an ABC. If the ABC cannot be shut down when sample collections have been closed, please refer to page 6-11.

Note: If the administrator has chosen to carry out a sampling campaign in the "Petri dish labels" or "Petri dish and sampling location labels" modes, it is necessary to scan Petri dish labels in order to close sample collections.

Closed samplings



On the **Closed samplings** screen:

To select a closed sample collection from the list:

1. press   to find a closed sample collection
- or
2. scan the label on the Petri dish or the sampling location
- or
3. Press  to display a list of buildings and press   to select a building.
4. Press  to display the list of rooms, press   to select a room and press .
5. Press   to select the sample collection (if necessary).

The sample collection is displayed.

Its status can be identified using the symbols:

- sampling successfully closed ,
- sampling failed .

The action bar displays the possible options for the selected sample collection.

Display detail of closed sampling:

- Press the key that corresponds to the  option.





Deletion of a successfully closed sampling:

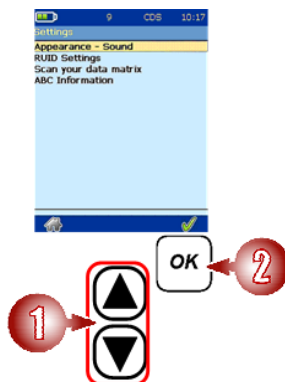
- Press the key that corresponds to the  option and follow the instructions displayed on the screen.

Note: A sample collection made in error cannot be deleted, even if the sampling delete key is active.

Display settings






On the **Settings** screen:

1. Press   to find a parameter.
2. Press  or  to select the appropriate menu.



Appearance - Sound

Note: To activate "Action" mode, press a key on the alphanumeric keypad.

3. Press   to change the appearance (+/-) or on the **F1** or **F2** keys.
4. Press  to proceed to the sound field.
5. Press   to select "On/Off".
6. Press **OK** to confirm.
7. Press **F2** ...
8. ... to return to the **Settings** screen.

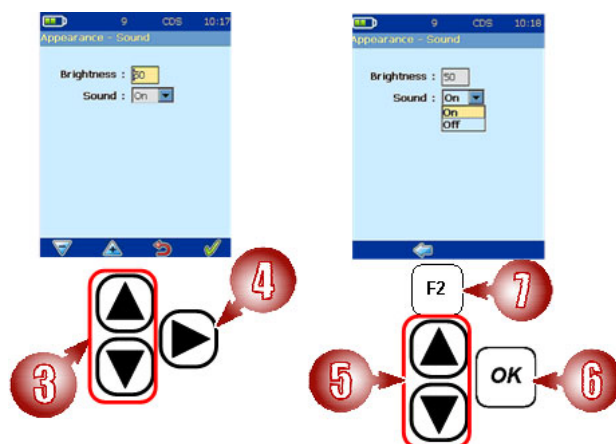


Figure 4-16: "Appearance - Sound" parameter

RUID Settings

Note: You must have the appropriate manager profile to modify the RUID settings.

To consult the RUID settings:

1. Select "RUID Settings".
2. Press **OK**.
3. The "RUID Settings" screen displays the RUID settings.
4. Press **F2** ...
5. ... to return to the **Settings** screen.



Figure 4-17: "RUID Settings"

Scan your datamatrix (Barcode reader test)

1. Select a barcode to read.
2. Press **SCAN**.
3. The result of the reading is displayed.
4. Press **F2** ...
5. ... to return to the **Settings** screen.



Figure 4-18: "Datamatrix Test" setting

ABC information

1. Place the barcode reader next to the barcode on the instrument.
2. Press **SCAN**.
- OR
3. Enter the MAC address of the ABC (see Keys and symbols, page 4-2) and press **OK** to confirm.
4. The information is sent to the RUID.
5. A screen displays information about the ABC, press **F2**, then **F3** ...
6. ... to return to the **Settings** screen.

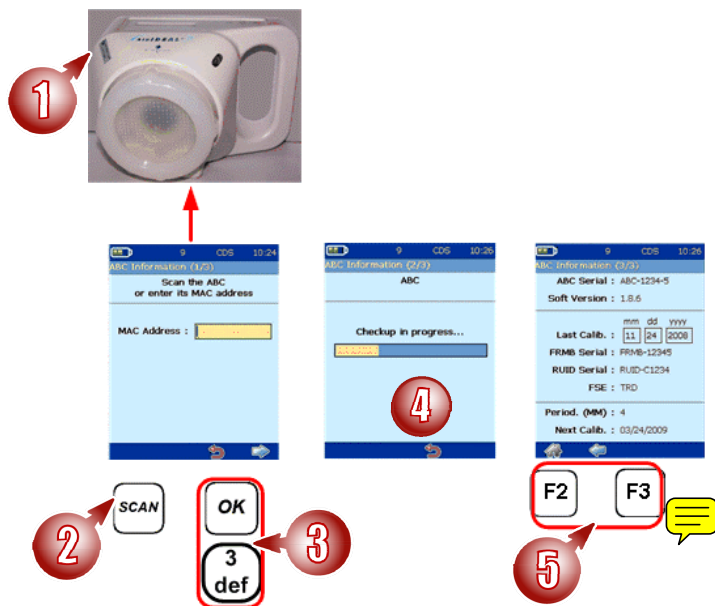


Figure 4-19: "ABC information" setting

Other settings on the RUID

It is possible to change other settings on the RUID using the ***airDEAL*® 3P™ Traceability software** (see the software user manual).

Use

Transferring data from the remote control to the software

Transferring data from the remote control to the software

Prerequisites for starting

- The RUID is switched on.
- The USB cable is available.
- The **airIDEAL[®] 3P[™] Traceability software** is installed on a PC provided by the customer.

Data transfer

Note: Connecting the RUID closes the current session automatically.

1. Connect the USB cable to the remote control.
2. The session closes.
3. Sampling data are transferred to the **airIDEAL[®] 3P[™] Traceability software** (see the software user manual).
4. A message appears confirming that the transfer has ended.
5. Disconnect the USB cable.

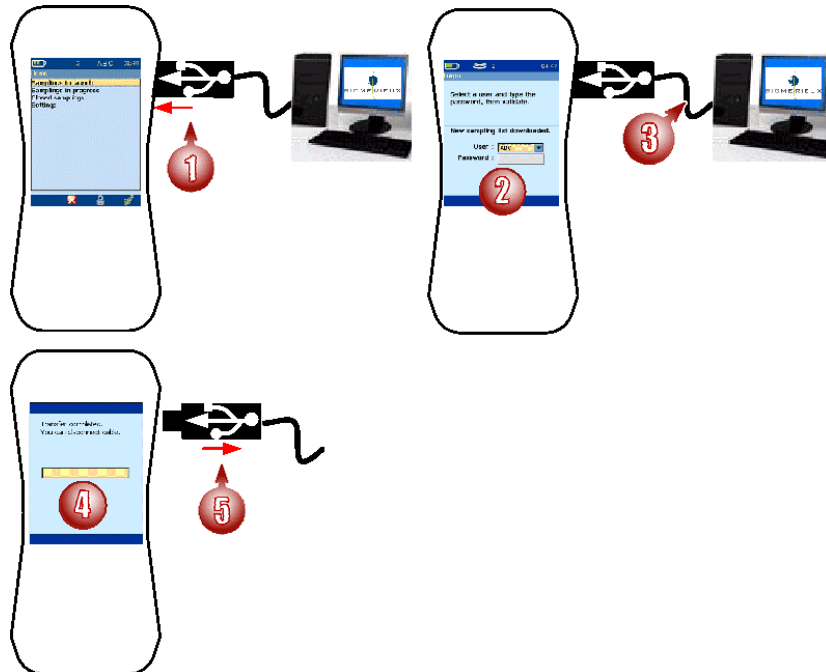


Figure 4-20: Data transfer

5 Servicing and maintenance

Preventative maintenance

WARNING!

No preventative maintenance is carried out by the user.

If your device does not function properly, please contact bioMérieux or your local bioMérieux representative.

The components of the battery must never be disposed of locally; these must be returned to bioMérieux or your local bioMérieux representative.

Cleaning

- Clean the outside of the remote control using a dry or damp cloth.
- If the remote control is very dirty, use a cloth dampened with soapy water.
- Dry with a lint-free cloth.

Decontamination

- Decontaminate external surfaces with a surface decontamination solution:
 - 70% ethanol

Initial charging/recharging of battery

Length of initial charge:	3.5 hours approximately
Battery life following charging:	8 hours

Before starting

- Check the voltage label. This must match the voltage of the power supply.



Initial battery charge/recharging

In order to optimize battery life, it is important to adhere to charging/discharging cycles.

IMPORTANT! *Before initial battery charging select your adaptor in accordance with your local electric features.*

1. Switch off the remote control.
2. Connect the charger lead (or a charger with the same specifications) to the remote control.
3. Plug the cord into mains power.
4. The battery is charging.
5. Unplug the cord from the mains power.
6. Disconnect the cord from the remote control.
7. Switch on the remote control.
8. Check the battery charge level.

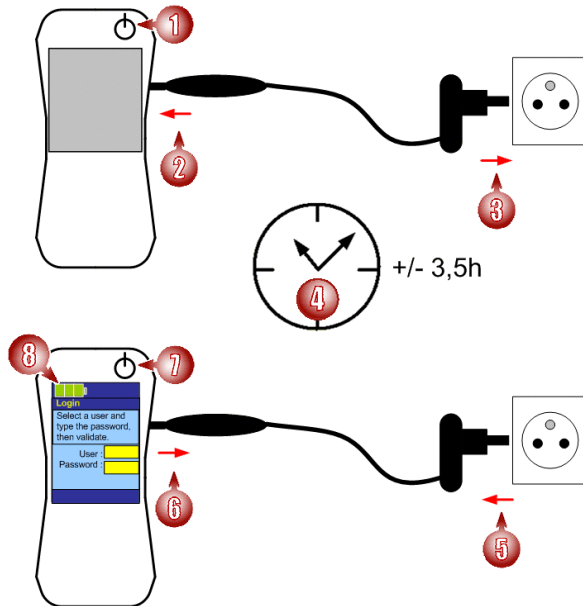
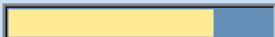

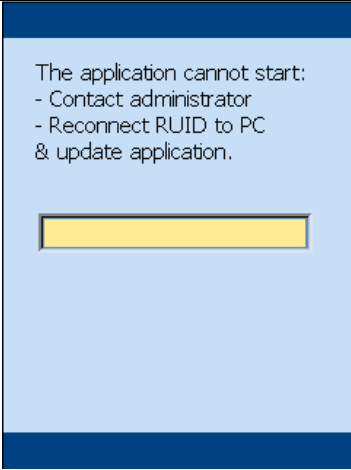
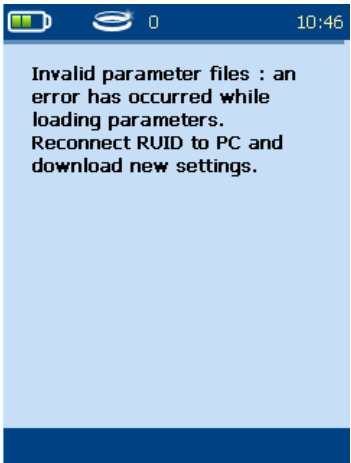
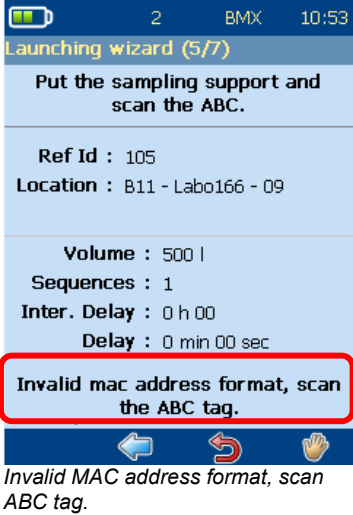
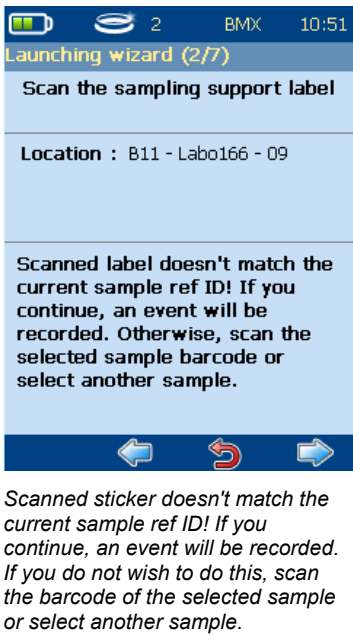


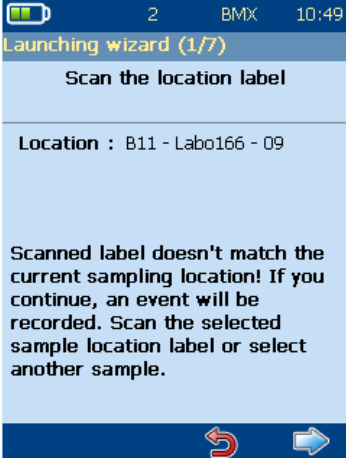

Figure 5-1: Initial charging/recharging of battery

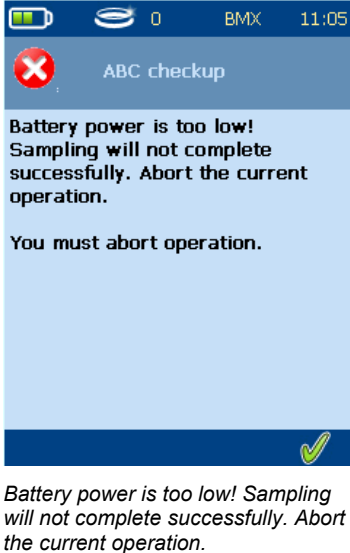
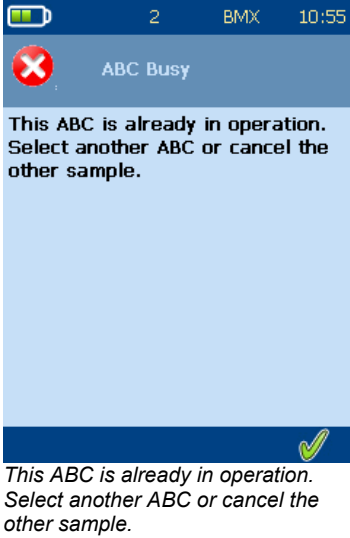
6 Troubleshooting

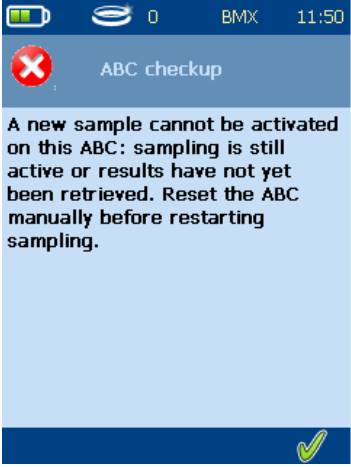
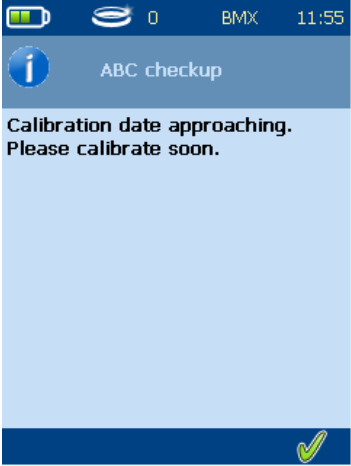
Error signal/message	Possible cause	Action to be taken
<p>At least one of the file is corrupted. Reconnect RUID to PC and download new settings.</p>  <p><i>At least one file is corrupted. Reconnect RUID to PC and download new settings.</i></p>	<p>An error occurred during the transfer or while writing to the disk.</p>	<ul style="list-style-type: none"> Reconnect the remote control to the PC and restart the transfer.
<p>Failed to copy files on USB disk. Reconnect RUID to PC and remove some files.</p>  <p><i>Failed to copy files to the USB disk. Reconnect RUID to PC and remove some files.</i></p>	<p>The USB disk is full.</p>	<ul style="list-style-type: none"> Connect the remote control to the PC and delete files from the USB disk.

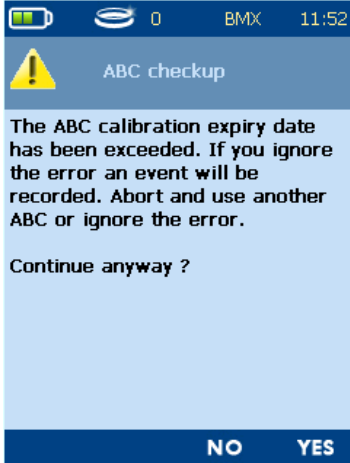
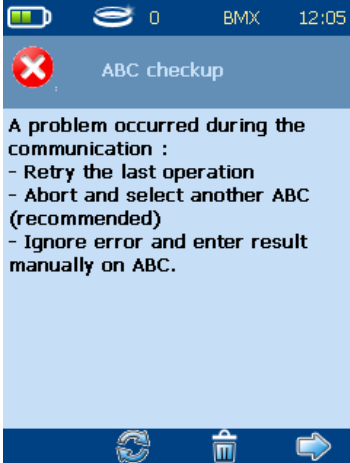
Error signal/message	Possible cause	Action to be taken
 <p>The application cannot start: - Contact administrator - Reconnect RUID to PC & update application.</p> <p><i>The application cannot start:</i> - Contact administrator. - Reconnect RUID to PC and update application</p>	<p>The RUID disk is corrupted or an error occurred while updating the application.</p>	<ul style="list-style-type: none"> Reconnect the RUID to the PC and then download a new application.
Parameters messages		
 <p>Invalid parameter files : an error has occurred while loading parameters. Reconnect RUID to PC and download new settings.</p> <p><i>Invalid parameter files: an error has occurred while loading parameters. Reconnect RUID to PC and download new parameters.</i></p>	<p>A file with the wrong format has been copied to the RUID.</p>	<ul style="list-style-type: none"> Reconnect the RUID to the PC and restart the transfer.

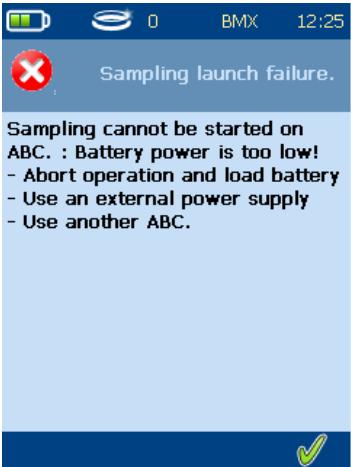
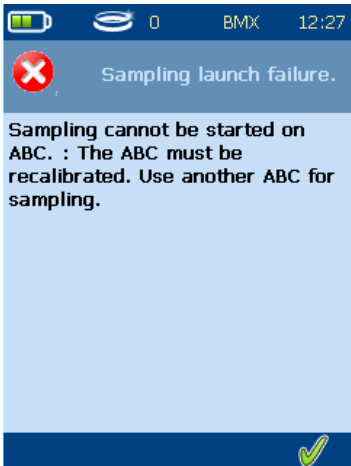
Error signal/message	Possible cause	Action to be taken
Data entry messages		
 <p>Invalid mac address format, scan the ABC tag.</p>	<p>The scanned label does not correspond to a MAC address label.</p>	<ul style="list-style-type: none"> Scan another label that contains a MAC address or enter the MAC address manually.
Sampling launch messages		
 <p>Scanned label doesn't match the current sample ref ID! If you continue, an event will be recorded. Otherwise, scan the selected sample barcode or select another sample.</p>	<p>The identification number of the scanned Petri dish does not correspond to the sample collection that is being launched.</p>	<ul style="list-style-type: none"> Cancel the launch. Then, scan the label on the Petri dish to close the corresponding sampling session.

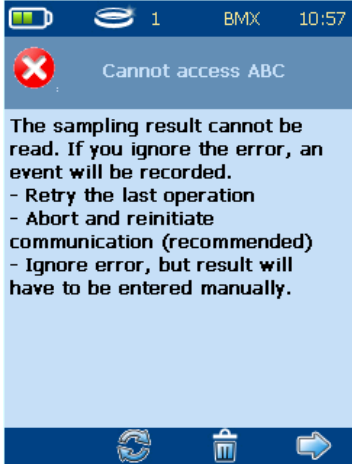
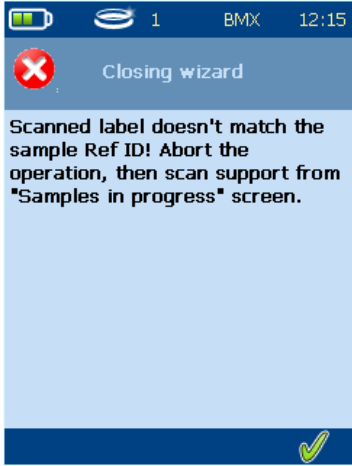
Error signal/message	Possible cause	Action to be taken
 <p>Scanned label doesn't match the current sampling location! If you continue, an event will be recorded. Scan the selected sample location barcode or select another sample.</p>	The scanned label location does not match the defined location for the current sampling.	Cancel the launch. Scan the location label again and launch one of the sample collections that remain displayed on the list.
 <p>Petri dish expiry date has been exceeded. If you continue, an event will be recorded. Select a valid Petri Dish or continue.</p>	The Petri dish expiry date has been exceeded.	<ul style="list-style-type: none"> If the expiry date was entered manually, check that the entered date is correct. Otherwise, it is recommended that another Petri dish be used. <p><i>Note: Use of a Petri dish with an expiry date that has been exceeded is traced.</i></p>

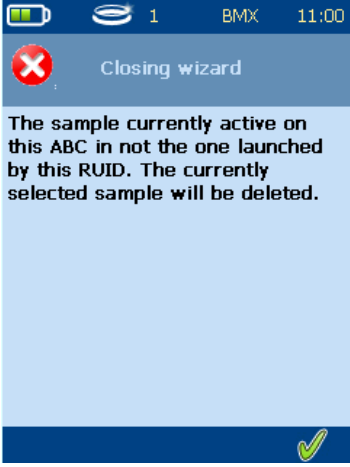
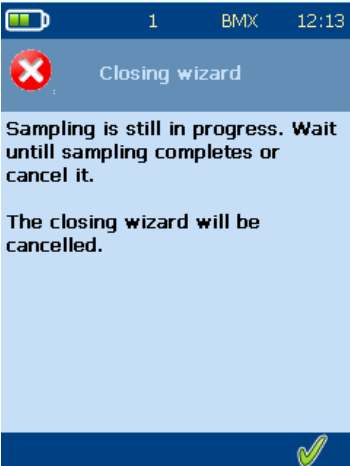
Error signal/message	Possible cause	Action to be taken
 <p>The screenshot shows a mobile app interface with a status bar at the top displaying battery, signal, and time (11:05). Below the status bar is a blue header with a red 'X' icon and the text 'ABC checkup'. The main content area is light blue and contains the text: 'Battery power is too low! Sampling will not complete successfully. Abort the current operation. You must abort operation.' At the bottom, there is a green checkmark icon and a summary text: 'Battery power is too low! Sampling will not complete successfully. Abort the current operation.'</p>	<p>Launch of active sampling with insufficient ABC battery life.</p>	<ul style="list-style-type: none"> Plug the ABC into mains power or use another ABC.
 <p>The screenshot shows a mobile app interface with a status bar at the top displaying battery, signal, and time (10:55). Below the status bar is a blue header with a red 'X' icon and the text 'ABC Busy'. The main content area is light blue and contains the text: 'This ABC is already in operation. Select another ABC or cancel the other sample.' At the bottom, there is a green checkmark icon and a summary text: 'This ABC is already in operation. Select another ABC or cancel the other sample.'</p>	<p>A manually launched sample collection is already active on this ABC.</p>	<ul style="list-style-type: none"> Use another ABC to perform sampling or wait until the current sample collection has finished on this ABC.


Error signal/message	Possible cause	Action to be taken
 <p>A new sample cannot be activated on this ABC: sampling is still active or results have not yet been retrieved. Reset the ABC manually before restarting sampling.</p>	<p>A sample collection is already active on this ABC.</p>	<ul style="list-style-type: none"> Check whether a sample collection is already active on this ABC. <p>If a sample collection is active:</p> <ul style="list-style-type: none"> use another ABC to perform the sample collection or wait until the current sample collection has finished on this ABC. <p>If there is no active sample collection:</p> <ul style="list-style-type: none"> follow the procedure instructions on page 6-11.
 <p>Calibration date approaching. Please calibrate soon.</p>	<p>Warning message indicating that the ABC should be calibrated soon.</p>	<ul style="list-style-type: none"> Prepare to send ABC for calibration before the expiry date is exceeded.

Error signal/message	Possible cause	Action to be taken
 <p>The ABC calibration expiry date has been exceeded. If you ignore the error an event will be recorded. Abort and use another ABC or ignore the error.</p> <p>Continue anyway ?</p> <p>NO YES</p> <p><i>The ABC calibration expiry date has been exceeded. If you ignore the error, an event will be recorded. Abort and use another ABC or ignore the error.</i></p>	<p>The ABC calibration expiry date has been exceeded.</p>	<ul style="list-style-type: none"> Inform the administrator and use another ABC. The ABC should be sent for calibration.
 <p>A problem occurred during the communication :</p> <ul style="list-style-type: none"> - Retry the last operation - Abort and select another ABC (recommended) - Ignore error and enter result manually on ABC. <p><i>A problem occurred during the communication:</i></p> <ul style="list-style-type: none"> - <i>Retry the last operation</i> - <i>Abort and select another ABC (recommended)</i> - <i>Ignore the error and enter result manually on ABC.</i> 	<p>An error occurred during data transfer to the ABC.</p>	<ul style="list-style-type: none"> Retry communication or select another ABC.

Error signal/message	Possible cause	Action to be taken
Sampling launch error messages		
 <p><i>Sampling cannot be started on ABC: battery power is too low.</i></p> <ul style="list-style-type: none"> – Abort operation and recharge battery – Plug the ABC into mains power. – Use another ABC. 	Sampling to this ABC was not started as battery power is too low.	<ul style="list-style-type: none"> • Recharge the ABC battery or connect an external power supply to the ABC or use another ABC.
 <p><i>Sampling cannot be started on ABC: ABC must be recalibrated. Use another ABC for sampling.</i></p>	This ABC has never been calibrated. Sampling is not allowed.	<ul style="list-style-type: none"> • Use another ABC to perform the sample collection. Inform the administrator that the ABC needs to be recalibrated.

Error signal/message	Possible cause	Action to be taken
Messages when closing sampling sessions		
 <p>The sampling result cannot be read. If you ignore the error, an event will be recorded.</p> <ul style="list-style-type: none"> - Retry the last operation - Abort and reinitiate communication (recommended) - Ignore error, but result will have to be entered manually. 	<p>Error when communicating with the ABC. The sampling result cannot be read.</p>	<ul style="list-style-type: none"> • Try to scan the ABC again. • Abort and turn the ABC off (recommended) • Ignore error, but result will have to be entered manually.
 <p>Scanned label doesn't match the sample Ref ID! Abort the operation, then scan support from "Samples in progress" screen.</p>	<p>The reference number of the scanned Petri dish does not correspond to the number of the sample collection that is being closed.</p>	<ul style="list-style-type: none"> • Close the closing wizard and then scan the Petri dish again. The closing wizard for the sample collection that matches this dish will be launched automatically.

Error signal/message	Possible cause	Action to be taken
 <p><i>The sampling active on this ABC is not the one launched by this RUID. The currently selected sample will be deleted.</i></p>	<p>The sample collection that is currently active on this ABC is not the one launched by this RUID. The sample collection recorded on the RUID will be cancelled. The sample collection is not valid.</p>	<p>None.</p>
 <p><i>Sampling is still in progress Wait until sampling completes or cancel it.</i></p>	<p>Sampling has not yet finished on the ABC.</p>	<ul style="list-style-type: none"> Wait until sampling has finished and launch the closing wizard again.

Error signal/message	Possible cause	Action to be taken
CANNOT SWITCH OFF ABC		
ABC cannot be switched off	Sampling in slave mode has failed.	<p>Slave mode should be abandoned:</p> <ul style="list-style-type: none"> Press the "Menu" button on the ABC for five seconds, and then press "+" (to select "Yes"). <p>CAUTION! <i>the sample collection that was in progress cannot be closed normally, as the sampling report in the ABC has been deleted:</i></p> <p>To close the sample collection:</p> <ul style="list-style-type: none"> select the report "Samplings in progress", cancel the report using the F3 key (trash), follow the instructions on the RUID. At the end of the operation, the message "The currently selected sample will be deleted" is displayed. Press F4 to confirm. The sample collection will move to the "Closed samplings" list, <p>preceded by .</p> <p><i>Note: Abandoning slave mode also enables a sample collection to be closed from a RUID that is not the one used to launch the sample collection (if the RUID that was used initially no longer works).</i></p>

7 Glossary

ABC	see AeroBioCollector
AeroBioCollector or air sampler	Device for collecting and counting viable bacterial and fungal particles in a known and precise volume of air.
<i>airIDEAL</i>® 3P™ Traceability solution	Solution consisting of an air sampler (ABC), a remote control (RUID) and the <i>airIDEAL</i>® 3P™ Traceability software .
MAC	Media Access Control
RUID	Remote User Interface Device Remote control containing the user interface.
Trigram	Three-letter abbreviation

Notes

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

