AQURE system
Instructions for use
from software version 1.7
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Introduction

About the AQURE system

The AQURE system lets you manage analytical devices and their operators. It manages issues related to the performance of these devices and helps you to resolve them quickly. It gives a continuous overview of device status and helps you comply with regulatory requirements. The system lets the user register samples and sends the results to the user and/or the HIS/LIS. The system has these parts:

- **Dashboard** shows key performance indicators (KPIs), device status, and issues.
- **Issues** is where you can explore, assign, resolve and record issues related to devices and operators.
- **Inspection ready** contains reports that record your compliance with your regulatory requirements.
- **Patient view** lets you filter patient lists and show sample results for each patient.
- The **AQURE FLEXLINK** system links together and saves the patient, operator and sampler ID data. When measured, the result is sent back to the patient bedside and/or the HIS/LIS system.
- **Device center** gives a list view display of all the devices connected to the AQURE system.
- **Operators** is where you add device operators and push the operator data to all your devices. You also monitor the performance of operators and assign courses.
- **Administration** is where you add, change and remove hospitals, departments and users of the AQURE system. You also manage courses and set up FLEXLINK profiles.
- **Help** shows the user instructions for the AQURE system.
- **About** shows the version of the AQURE system.
- **My profile** lets you edit your user data and subscribe to issues.

The help system

Click the **Help** tab shown in the menu bar of the AQURE system to access the online help.

This table describes the functionality of the symbols and buttons in the user interface of the help system:

<table>
<thead>
<tr>
<th>Symbol and text buttons</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Shows the navigation tree</td>
</tr>
<tr>
<td></td>
<td>Hides the navigation window</td>
</tr>
<tr>
<td></td>
<td>Goes to the previous help page</td>
</tr>
</tbody>
</table>
**Intended use**

For in vitro diagnostic use.

The AQURE system is intended to let you manage analytical devices and operator profiles. The user can associate patient data with test data. The system shows test results.

The system receives data from connected devices at the point-of-care or laboratory. It can send test results to the HIS/LIS. The system lets you send commands to selected devices. The system uses data related to the performance of devices, to tell users of issues to be managed.

The AQURE system is intended for professional use.

**Hazards**

A hazard symbol shows which instructions an operator must obey to prevent risk to persons or equipment. There are two types of hazard.

<table>
<thead>
<tr>
<th>Hazard type</th>
<th>Hazard symbol</th>
<th>Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING</td>
<td></td>
<td>Death or injury to persons</td>
</tr>
<tr>
<td>CAUTION</td>
<td></td>
<td>Equipment damage</td>
</tr>
</tbody>
</table>
What is the Dashboard?

The Dashboard page is the first page you see when you log on. The page shows widgets that are programs shown in small windows. An example of a widget is the Latest QC status of all devices widget.

At the top right of the Dashboard you can use these buttons:

- **Edit widgets**: To edit, add and remove a widget.
- **Change layout**: To change the layout of the Dashboard.

You can drag and drop the widget to move it.

The changed Dashboard layout and added widgets are there the next time you log on.

**Related topics**
- Widgets, page 3
- Graphical widgets, page 3

Widgets

There are two types of widget - standard and graphical.

**Related topics**
- What is the Dashboard?, page 3

Standard widgets

The system includes these standard widgets.

<table>
<thead>
<tr>
<th>Widget</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue list</td>
<td>These widgets show a list of the top 5, 10 or 50 issues that are not closed</td>
</tr>
<tr>
<td>Number of POCT devices</td>
<td>This widget shows the number of point-of-care devices registered in the system</td>
</tr>
<tr>
<td>RSS feed</td>
<td>This widget shows the RSS feed from the entered web page</td>
</tr>
</tbody>
</table>

Graphical widgets

The system includes these Graphical widgets:
<table>
<thead>
<tr>
<th>Widget</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest QC status of all devices</td>
<td>A pie chart of the latest QC status of all devices</td>
</tr>
<tr>
<td>Number of issues</td>
<td>A pie chart of all open issues</td>
</tr>
<tr>
<td>Number of my issues</td>
<td>A pie chart of all the user's open issues sorted by type of issue</td>
</tr>
<tr>
<td>Patient sample heartbeat</td>
<td>The number of patient samples received daily by the AQURE system for the last 30 days. The overview in this widget helps you to see if the number of patient sample measurements changed during a period of time.</td>
</tr>
<tr>
<td>QC heartbeat</td>
<td>The number of QC results, QC results with errors and QC results with range violations received by the AQURE system per day for the last 30 days. The overview in this widget helps you to see if the number of QC measurements has changed during a period of time. It also shows if an increased number of QC range violations or errors have occurred.</td>
</tr>
</tbody>
</table>

**Related topics**
- [What is the Dashboard?](#), page 3
What is an issue?

An issue tells you when it is necessary to do something to make sure your devices give accurate results and when it is necessary to train operators. QC range and statistical period violations are examples of issues.

Related topics

• Issues created by the AQUARE system, page 41

How are issues created?

Issues are created in two ways. They are automatically generated by the system or by users who create them manually.

The system automatically creates issues when:

• a connected device shows critical errors
• a QC result is received from an unknown operator
• a new device is connected to the system and requires your attention before it can be used
• a QC range violation occurs
• a calibration error occurs
• an operator performance error occurs
• a RiliBÄK rule is violated
• the evaluation of the monthly statistics fails

Understanding the issues workflow

You see issues in a list view. When you select an issue, you can edit it and assign the issue to a person. Issues can have data such as graphs and measurement results that enable you to analyze them. Some issues have an Explore button that shows more facts about the issue. When you resolve an issue, you correct it and record its root cause and corrective action. When the issue is resolved the assignee can close it.
To resolve an issue

This is the general procedure to resolve an issue, for example a Device error issue. You can follow changes to an issue with the Subscribe to issue function.

1. From Issues click the issue.
2. Click the Assign to me button or select an assignee from the Assignee drop down lists.
3. Change the Status from Open to In progress.
4. Enter a comment about the issue in the Comment box.
5. Click the Explore button if you want to see more data about the issue.
6. Fill in the Root cause text field and click Save.
7. Complete the corrective action.
8. Fill in the Corrective action text field and click Save.
9. Make sure that the corrective action removed the root cause.
10. Change the Status from In progress to Closed.

To resolve a QC range violation issue

A QC range violation issue tells you that one or more parameters have violated the QC ranges. You can follow changes to an issue with the Subscribe to issue function.

1. From Issues click the issue.
2. Click Assign to me or select an assignee from the Assignee drop down lists.
3. Change the Status from Open to In progress.
4. Enter a comment about the issue in the Comment box.
5. Click Subscribe to issue or Unsubscribe from issue if you want or do not want to get an e-mail when the issue is updated.
6. Choose an option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To exclude a QC parameter from the</td>
<td>Deselect the parameter you want to exclude.</td>
</tr>
<tr>
<td>statistics.</td>
<td></td>
</tr>
<tr>
<td>To add a comment about the included or</td>
<td>Enter text in the Include/exclude comment box.</td>
</tr>
<tr>
<td>excluded parameter.</td>
<td></td>
</tr>
<tr>
<td>To see a graphical representation of the</td>
<td>Click the Levey-Jennings plot button.</td>
</tr>
<tr>
<td>QC result.</td>
<td></td>
</tr>
<tr>
<td>To see if device activities occurred at</td>
<td>a) Click the Device messages button.</td>
</tr>
<tr>
<td>the same time as the QC range violation.</td>
<td>b) Point the cursor to the message in the time line.</td>
</tr>
<tr>
<td>To see if there is a trend in the</td>
<td>Click the Trend across levels button.</td>
</tr>
<tr>
<td>analytical performance on all measured QC</td>
<td></td>
</tr>
<tr>
<td>levels.</td>
<td></td>
</tr>
<tr>
<td>To see if there is a trend on other</td>
<td>Click the Trend across devices button.</td>
</tr>
<tr>
<td>devices of the same type which use the</td>
<td></td>
</tr>
<tr>
<td>same QC material.</td>
<td></td>
</tr>
<tr>
<td>To see the status of the device and</td>
<td>Click the Explore button and go to the Device center for more</td>
</tr>
<tr>
<td>possibly do actions on it.</td>
<td>information or to do actions.</td>
</tr>
</tbody>
</table>

7. Fill in the Root cause text field and click Save.

8. Complete the corrective action.

9. Fill in the Corrective action text field and click Save.

10. Make sure that the corrective action removed the root cause.

11. Change the Status from In progress to Closed.

**To resolve a calibration issue**

A calibration issue tells you that a calibration failed for one or more parameters. You can follow changes to an issue with the Subscribe to issue function.

1. From Issues click the issue.
2. Click Assign to me or select an assignee from the Assignee drop down lists.
3. Change the Status from Open to In progress.
4. Enter a comment about the issue in the Comment box.
5. Choose and option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To see the calibration results on the</td>
<td>Click the Calibration result button.</td>
</tr>
<tr>
<td>measured parameters.</td>
<td></td>
</tr>
<tr>
<td>To see if device activities occurred at</td>
<td>a) Click the Device messages button.</td>
</tr>
<tr>
<td>the same time as the calibration issue.</td>
<td>b) Point the cursor to the message in the time line.</td>
</tr>
<tr>
<td>To see the status of the device and</td>
<td>Click the Explore button and go to the Device center for more</td>
</tr>
<tr>
<td>possibly do actions on it.</td>
<td>information or to do actions.</td>
</tr>
</tbody>
</table>

6. Fill in the Root cause text field and click Save.

7. Complete the corrective action.
8. Fill in the **Corrective action** text field and click **Save**.
9. Make sure that the corrective action removed the root cause.
10. Change the **Status** from **In progress** to **Closed**.

### About the quick close function

The **Quick close** button makes it easy to close issues fast. You click the **Quick close** button to:

- save changes you have made to the issue
- assign yourself to an issue if there is no assignee
- close the issue
- show the next issue in the (filtered) list of issues.

### To handle multiple issues

You can handle multiple issues in one operation.

1. Go to **Issues**.
2. Use the filter function to make a list of issues you are interested in.
3. Choose an option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To select all issues in the list.</td>
<td>Select the check box shown on the left side of the <strong>Type</strong> heading.</td>
</tr>
<tr>
<td>To select individual issues.</td>
<td>Select all necessary check boxes in the list.</td>
</tr>
</tbody>
</table>

*Note:* you can only handle issues one page at a time. If you choose to **Save current view** you can use the **page count** field to show a maximum of 100 issues per page.

4. Click the **Action** button.
5. Select actions and/or enter text for the selected issues.
6. Click the **Save** button.

### About RiliBÄK rule violation issues

*Note:* These rules only apply to the German RiliBÄK setup of the AQURE system.

The AQURE system creates an issue when one of these RiliBÄK rules is violated:

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 hour rule</td>
<td>1 QC must be measured successfully within 16 hours before a patient result is measured</td>
</tr>
<tr>
<td>24 hour rule</td>
<td>Within one calendar day on which a minimum of one patient sample has been measured a minimum of two different levels of QC must be measured successfully</td>
</tr>
<tr>
<td>Unit use device rule</td>
<td>Within a calendar week - one QC must be measured successfully before a patient result is measured</td>
</tr>
<tr>
<td>Low frequency device rule (less than 15 QCs per 3 months)</td>
<td>Within one calendar day on which a minimum of one patient sample has been measured a minimum of two different levels of QC must be measured successfully</td>
</tr>
</tbody>
</table>
About the add issue screen

From Issues you use the Add issue button when you want to add an issue of the type Task or Maintenance. You can also assign the issue to a person.

- The summary text that you enter is shown in the Issues list.
- An issue with the status resolved is solved but not closed. You use this status when the person who corrects and records the issue is different from the person who closes it.

Related topics
- To create your own list view, page 11
List views

About list views

You can create and save your own list views with selected data. You can create list views for:

- devices
- issues
- operators, and
- patient results.

For example, you can save a view that shows all devices with a Warning status and a view that shows open issues with a High severity.

To create your own list view

1. Choose an option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sort columns</td>
<td>Click a column header to sort the contents in an alphanumerical sequence.</td>
</tr>
<tr>
<td>Filter items from a list</td>
<td>a) Click the Add filter buttons and select the items you want to see.</td>
</tr>
<tr>
<td></td>
<td>b) Click Filter.</td>
</tr>
<tr>
<td>Sort by header (only devices and issues)</td>
<td>You can also drag and drop headings inside that row.</td>
</tr>
<tr>
<td>Expand or collapse a view in a list sorted by header (only devices and issues)</td>
<td>a) Click the down arrow to collapse the view.</td>
</tr>
<tr>
<td></td>
<td>b) Click the up arrow to expand the view.</td>
</tr>
</tbody>
</table>

2. From the Select view drop down list, select Save current view.
3. Enter the name of the view and if you want the view to be the one you see the next time you enter the page click the Default box.
4. Select the number of items for each page.
5. Click Save.

Related topics

- About the add issue screen, page 9

About Search

From the respective parts of the AQURE system you can search for:
• devices
• issues
• operators,
• training course status, and
• patient results.
About reports

The system includes standard reports. They can help you record the status of your POC devices to show compliance with your regulatory requirements. You can see the reports online. You can also print or attach them to e-mails or export them in different file formats.

Related topics
• Links between reports, page 13
• Reports, page 14

Links between reports

The QC statistical evaluation overview shows an overview of the monthly quality control statistical evaluations. You can select to see statistics from two months to one year. Click on a square to open the QC statistical evaluation report and see more on bias and imprecision for a parameter on a device.

From the QC statistical evaluation report click a link to see details on parameter linearity or QC range violations. The illustration below shows the links between the reports.

Related topics
• About reports, page 13
Legend of QC statistical evaluation report

<table>
<thead>
<tr>
<th>Icon or text</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>A green checkmark shows that the evaluation of the parameter did not violate any rules.</td>
</tr>
<tr>
<td>🔴</td>
<td>A red X shows that the evaluation of the parameter violated the rules. The red X does not tell you if you are in compliance. You see the compliance status in the bottom right corner of the report.</td>
</tr>
<tr>
<td>🎯 0.296</td>
<td>The table below the Levey-Jennings plot shows the result of the statistical evaluations. A red SD cell in the Month-to-date row shows that the monthly SD is greater than 150% of the lot to date SD. A red Bias cell in the Month-to-date row shows that the shift in bias from the period before is greater than the lot-to-date SD.</td>
</tr>
</tbody>
</table>

Text in right corner

The text in the bottom right corner of the report tells you if the issue has been closed. If there is no "Reviewed by" the issue is pending and you can be out of compliance.

Reports

The reports available in the system are:

<table>
<thead>
<tr>
<th>Report</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration report</td>
<td>This report shows all calibrations on one device during a period of time</td>
</tr>
<tr>
<td>Control cycle evaluation</td>
<td>This RilliBÄK report shows the evaluation of bias and imprecision for one control cycle. The evaluation is shown as the root mean square deviation. It shows the status for a device, a parameter, lot and level.</td>
</tr>
<tr>
<td>Current parameter range setup</td>
<td>This report shows the QC ranges for all parameters on all QC levels on each device in a hospital. The report shows a snapshot of the setup as it was when the report was generated.</td>
</tr>
<tr>
<td>Issues report</td>
<td>This report shows all issues for a selected period of time</td>
</tr>
<tr>
<td>Issues report - QC range violations</td>
<td>This report shows issues for QC range violations for a selected period of time</td>
</tr>
<tr>
<td>QCs excluded from statistical calculation</td>
<td>This report shows all QCs manually excluded from statistical calculations during a period of time</td>
</tr>
<tr>
<td>QC statistics and linearity</td>
<td>This report shows the linearity of a parameter for a selected period of time. The area of a circle shows how big the standard deviation is. There is an expectation that the area of a circle increases in proportion to the concentration of QC material for the parameter. The CV% shows if this increase is satisfactory. There is a systematic bias on the result if the slope of regression equation is different from 1.00 ± 0.1.</td>
</tr>
<tr>
<td>Report</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>QC statistical evaluation</td>
<td>This report shows the monthly evaluation of bias and imprecision. The Levey-Jennings plot shows the QC status for one parameter, lot and level for a period of one month. The table below the Levey-Jennings plot shows the result of the statistical evaluations. An SD value on a red background in the Month-to-date row shows that the monthly SD was greater than 150% of the lot-to-date SD. A bias value on a red background in the Month-to-date row shows that the shift in bias from the previous period was greater than the lot-to-date SD.</td>
</tr>
<tr>
<td>QC statistical evaluation over-</td>
<td>This report shows monthly evaluations for a selected period of time for a device, a parameter, lot and level. To see details of a monthly evaluation, click on a square.</td>
</tr>
<tr>
<td>view</td>
<td></td>
</tr>
<tr>
<td>QC status overview</td>
<td>This report shows QC range evaluations for all the departments in all hospitals. A red square shows a QC range violation on any given device in a department. A green square shows that a device had no QC range violations. Click on a red square to see which device had one or more QC range violations.</td>
</tr>
<tr>
<td>QC status per department</td>
<td>This report shows QC range evaluations for all the devices in a department. It shows the status of QC range evaluations per day and per device. A red square shows one or more QC range violations.</td>
</tr>
</tbody>
</table>

**Related topics**
- About reports, page 13
Patient view

About the patient view

In Patient view you get a list of all patient results in the AQURE system. You can save a set of filters as a view. For example, you can save a view that shows all patient results from a specific department or device.

When you click in the patient list you see the 5 latest results from that patient and can browse to all the patient's results.

Note: The Patient ID is the unique patient identifier. If you want to see more results from the same patient in one view they need to have the same Patient ID.

To find a patient's results

1. Go to Patient view.
2. Use the filter, sort group or search functions to see the data you want to see.
3. Click the patient result.
   You see a maximum of the 5 latest results for that patient.
4. If necessary, use the button to see previous results for the patient.

Related topics
• About accessing patient results, page 24
• To create your own list view, page 11

The result page

You open the result page from the Patient view list. The result page has these buttons and symbols:

<table>
<thead>
<tr>
<th>Buttons, symbols</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A button used to show a maximum of 5 previous results</td>
</tr>
<tr>
<td></td>
<td>A button used to show a maximum of 5 next results</td>
</tr>
<tr>
<td>Show messages/ Hide messages</td>
<td>A button used to show or hide error messages on the results with a question mark</td>
</tr>
<tr>
<td>Show ranges/ Hide ranges</td>
<td>A button used to show or hide the lower and upper limits of the reference range. The range is shown in square brackets</td>
</tr>
<tr>
<td>Information</td>
<td>A button used to show or hide the Result status, Sample type, Sample number and Registration time</td>
</tr>
<tr>
<td>Buttons, symbols</td>
<td>Explanation</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>More</td>
<td>A button used to show or hide the <strong>Device type</strong>, <strong>Comment</strong>, <strong>Measuring mode</strong> and <strong>Sampler ID</strong></td>
</tr>
<tr>
<td>Measurement</td>
<td>A button used to show or hide the values of the measured parameters</td>
</tr>
<tr>
<td>Unknown</td>
<td>A button used to show or hide unknown measurements</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>An error occurred</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>Result is above the reference range but below the upper critical limit</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>Result is below the reference range but above the lower critical limit</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>Result is above the upper critical limit but below the upper limit of the reportable range</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>Result is below the lower critical limit but above the lower limit of the reportable range</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>Result is above the upper limit of the reportable range but below the upper limit of the range of indication. No result is available.</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>Result is below the lower limit of the reportable range but above the lower limit of the range of indication. No result is available.</td>
</tr>
<tr>
<td><img src="image" alt="" /></td>
<td>Result is outside the range of indication of the analyzer. No result is available.</td>
</tr>
</tbody>
</table>

**To see device performance when the patient sample was measured**

This procedure lets you see QC results and device messages created when the patient sample was measured:

1. Go to **Patient view**.
2. Click the patient result you want to examine.
3. Click a measurement value or the "..." symbol. The **Device center** opens.
4. Move the cursor to the ![](image) icon.
5. Choose an option from the patient result time line, Levey Jennings graph or the Device messages and follow the steps for it:

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To see an overview of the patient/QC result or to see the device message.</td>
<td>Put the cursor on the result icon.</td>
</tr>
<tr>
<td>To see a QC target value.</td>
<td>Put the cursor on the dashed line.</td>
</tr>
<tr>
<td>To see details about a patient/QC result.</td>
<td>Click the result icon.</td>
</tr>
</tbody>
</table>
What is the AQURE FLEXLINK system?

The AQURE FLEXLINK system is part of Radiometer's 1st Automatic solution and lets you register patient, operator and sampler ID data at the patient bedside, with a barcode reader. It links together and saves this data and when the patient sample has been measured, the system sends the result to the bedside and/or the HIS/LIS system.

To register a sample

The AQURE FLEXLINK system only works with Radiometer safePICO samplers, ABL800 FLEX, ABL80 FLEX and ABL90 FLEX analyzers.

You can scan a maximum of 6 samplers for a patient.

1. **WARNING – Risk of patient mix up**
   Scan or enter patient ID. Check that the ID is entered correctly.

2. Scan or enter the operator ID.

3. **WARNING – Risk of patient mix up**
   Scan or enter sampler ID. Check that the ID is entered correctly.

4. Tap the touchscreen or click the mouse to enter more data.

5. **WARNING – Risk of incorrect treatment**
   Check that the data is entered correctly (for example the temperature and the FIO2 %).

6. Tap or click OK.

7. If necessary, scan more samplers.

8. Tap or click Register.

Related topics

- About the result page, page 20
- The result page, page 20
To edit sampler data

You can edit sampler data if you have not registered it.

1. Choose an option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To edit the data for one sampler.</td>
<td>Tap in the sampler box and edit the data.</td>
</tr>
<tr>
<td>To delete the data for one sampler.</td>
<td>Tap the X in the sampler box.</td>
</tr>
<tr>
<td>To delete all data.</td>
<td>Tap the Reset button.</td>
</tr>
</tbody>
</table>

About the result page

The result page shows a maximum of 6 measured patient results. The latest result is always shown to the left side. You can use the right arrow to see older results and the down arrow to see all measurement values.

Related topics
- The result page, page 20
- To register a sample, page 19

The result page

The result page of the AQURE FLEXLINK system has these buttons, symbols and dates:

<table>
<thead>
<tr>
<th>Buttons, symbols and dates</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>A button used for approval of the result</td>
</tr>
<tr>
<td>☧</td>
<td>A button used to reject the result. You must write a reject comment</td>
</tr>
<tr>
<td>Toggle ranges</td>
<td>A button used to show the lower and upper limits of the reference range. The range is shown in square brackets.</td>
</tr>
<tr>
<td>Register new</td>
<td>A button used to start a new registration session</td>
</tr>
<tr>
<td>💡</td>
<td>An error occurred.</td>
</tr>
<tr>
<td>🔃</td>
<td>Result is above the reference range but below the upper critical limit</td>
</tr>
<tr>
<td>🔴</td>
<td>Result is below the reference range but above the lower critical limit</td>
</tr>
<tr>
<td>🔶</td>
<td>Result is above the upper critical limit but below the upper limit of the reportable range</td>
</tr>
<tr>
<td>🔺</td>
<td>Result is below the lower critical limit but above the lower limit of the reportable range</td>
</tr>
<tr>
<td>🔹</td>
<td>Result is above the upper limit of the reportable range but below the upper limit of the range of indication. No result is available</td>
</tr>
<tr>
<td>⬇️</td>
<td>Result is below the lower limit of the reportable range but above the lower limit of the range of indication. No result is available</td>
</tr>
<tr>
<td>⬇️</td>
<td>Result is outside the range of indication of the analyzer. No result is available</td>
</tr>
<tr>
<td>Buttons, symbols and dates</td>
<td>Explanation</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Registration time</td>
<td>The time the result was registered in the AQURE FLEXLINK system</td>
</tr>
<tr>
<td>The time shown at the top of each column</td>
<td>Shows the registered time until the Measuring Time of the sample is received and shown</td>
</tr>
</tbody>
</table>

**Related topics**
- About the result page, page 20
- To register a sample, page 19

**To see patient results**

With AQURE FLEXLINK system you can see a maximum of 6 registered patient results:

1. Scan or enter operator ID.
2. Scan or enter patient ID.
3. Click the patient icon at the top of the screen.
The Device center

About the Device center

From the Device center you can see the status of the devices connected to the system. For some devices you can:

- see if it is connected to the system
- see the parameter status
- see if there are open issues for the device
- send commands to it
- access reports from the selected device
- quickly access it
- edit it

Note: If a device is not connected to the system, you will see the parameter status from the last time the device was connected.

You can group devices and filter devices. When you use the filter you will only see devices with the selected status, device type, hospital and department.

Related topics
- Device actions for ABL90 FLEX analyzers, page 42
- Device actions for AQT90 FLEX analyzers, page 43
- Device actions for ABL800 FLEX and ABL700 series analyzers, page 44
- Device actions for ABL80 FLEX series analyzers, page 45
- Device actions for ABL5 analyzers, page 46
- To start an action on a device, page 25
- To lock a parameter, page 25

To see all devices in a department

You can see all devices in a department from the Device center and save the page:

1. Go to the Device center.
2. Drag the Hospital column header to the row above.
3. Drag the Department column header to the row above.
4. From the Select view drop down list select Save current view.
5. Enter the name of the view.
6. Select the number of items for each page.
7. Click the Save button.

About issues explore view

When you click the Explore button you are redirected to more information about the issue, such as:

- Patient results
• Parameter status
• Levey-Jennings plot
• Device messages
• Calibration trends on parameters
• Calibration status
• QC status
• Consumables
• Scheduled activities
• System messages
• Operator performance.

About the timelines

For devices that support it, the Device center has a timeline for Patient results, the Levey-Jennings plot and Device messages. It lets you see the device activities and when they occurred in relation to each other. This helps you find the root cause of an issue.

To find device data within a time range

1. Go to the Device center.
2. If necessary, use the filter, sort group or search functions to see the device you want to see.
3. Click the device.
4. Enter the time range.
5. Click the Filter button.

About accessing patient results

You can access the patient result time line directly from the Device center or by clicking a measurement value from the patient result page.

You typically access a patient result time line from the Device center when you investigate device errors, and want to see if they had an effect on patient results. When you access the patient result time line from the patient result page you are typically interested in the patient result, and want to see if it was influenced by device errors.

Related topics
• To see a patient result from the Device center, page 25
• To find a patient's results, page 17

Patient result timeline

The time line has symbols that show the status of the patient results measured in the selected period:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Blue Square]</td>
<td>The patient result was accessed from the Device center and has no errors or range violations</td>
</tr>
<tr>
<td>![Red Square]</td>
<td>The patient result was accessed from the Device center and has at least one error or range violation</td>
</tr>
<tr>
<td>![Blue Diamond]</td>
<td>The patient result was accessed from the patient result page and has no errors or range violations</td>
</tr>
<tr>
<td>![Red Diamond]</td>
<td>The patient result was accessed from the patient result page and has at least one error or range violation</td>
</tr>
</tbody>
</table>
To see a patient result from the Device center

This procedure lets you see if a device error has had an effect on patient results.

1. Go to the Device center.
2. Click the device that measured the patient result.
3. If necessary, change the Show data from period and click the Filter button.
4. Click the Patient result bar.
5. Click one of the red or blue squares.
   You see the result values.

Related topics
• About accessing patient results, page 24

Device messages

Three types of messages are recorded:
• Info - message contains information about the status of a device.
• Warning - message contains warning information about the status of a device.
• Critical - message contains information about a critical event or status of a device.

To start an action on a device

1. Go to the Device center.
2. Select a device and click Device actions.
3. Select an action and fill in any fields.
4. Click Send.

Related topics
• About the Device center, page 23
• Device actions for ABL90 FLEX analyzers, page 42
• Device actions for AQT90 FLEX analyzers, page 43
• Device actions for ABL800 FLEX and ABL700 series analyzers, page 44
• Device actions for ABL80 FLEX series analyzers, page 45
• Device actions for ABL5 analyzers, page 46

To lock a parameter

1. Go to the Device center.
2. Select a device.
3. Select a parameter.
4. Click Lock.

Related topics
• About the Device center, page 23
• Device actions for ABL90 FLEX analyzers, page 42
• Device actions for AQT90 FLEX analyzers, page 43
• Device actions for ABL800 FLEX and ABL700 series analyzers, page 44
• Device actions for ABL80 FLEX series analyzers, page 45
• Device actions for ABL5 analyzers, page 46
Calendar

You use the Calendar in the **Device center** when you want to see more about a device and in **Operators** when you want to set the lock out date of an operator. The Calendar has 3 active areas where you can change the date:

<table>
<thead>
<tr>
<th>Calendar</th>
<th>Description</th>
</tr>
</thead>
</table>
| ![Calendar Diagram](image) | 1. Title bar - Changes the calendar range by month, a year, 10 years or 100 years.  
2. Left and right arrows - Increase or decrease the calendar range by the selected unit of time. For example, a month, a year, 10 years or 100 years.  
3. Calendar - Decreases the calendar range by year or month depending on what was selected in the title bar. |
About operator administration

In operator administration you can set up operator profiles and push them to devices connected to the AQURE system.

For each device type you see the required number of QC and patient measurements the operator should do during a calendar month. You see the number of currently completed measurements. This feature works for all device types. For Radiometer devices you can also see how many measurements failed and how many the operator is allowed to fail. Three days after the end of the calendar month the AQURE system calculates the performance of the operators. The period of three days gives operators time to register results from devices that have to be docked before they can send results to the AQURE system.

An issue is created if operators did not do sufficient QC measurements or patient samples or failed too many of them. When you click the Explore button from the operator performance issue you go to the Operators page where you can lock out or change their lock out date on a device type. If you close an operator's account, the operator cannot access the device associated with that account.

You can also assign courses to operators.

Related topics
• To add operator data to the system, page 27
• To change the home department of an operator, page 28
• To send operator data to all devices, page 28
• To send operator data to one device, page 28

To add operator data to the system

From the Add operator page you give the operator access to device types in different departments.

Note: From Administration > Add user you can create a user of the AQURE system and an operator at the same time.

1. Go to Operators and click the Add operator button.
2. Fill in the Personal details, the Logon information and select the Hospital and Home Department of the operator.
   Note: Operator name is mandatory.
3. Click Save.
4. To add more departments select Hospital and Department and click Add.
5. Select the operator Role for the device types.
   The role comes from the device. The operator has the same role on all devices of a type.
6. Set the Lock out date for the device types.
   The Lock out date is the date when the operator cannot operate the device.
7. Select **Active** to give the operator access to the device type.
8. Click the **Save** button.

**Related topics**
- About operator administration, page 27

---

**To change the home department of an operator**

1. Go to **Operators**.
2. Click the operator you want to edit.
3. Select the new **Home department** of the operator from the drop down list.
4. Click **Save**.

**Related topics**
- About operator administration, page 27

---

**To send operator data to all devices**

This procedure deletes all operator data on the devices and sends the operator data saved in the AQURE system to all devices.

1. Go to **Operators**.
2. Click **Push all operators**.

**Related topics**
- About operator administration, page 27

---

**To send operator data to one device**

This procedure sends operator data saved in the AQURE system to one device.

1. Go to **Device center > [the device you want to send data to]**.
2. Click the **Show operators** link.
3. Choose an option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To edit operator data</td>
<td>a) Click the operator you want to edit</td>
</tr>
<tr>
<td></td>
<td>b) Edit the operator data</td>
</tr>
<tr>
<td></td>
<td>c) Click <strong>Save</strong></td>
</tr>
<tr>
<td>To add new operator</td>
<td>a) Click <strong>Add operator</strong></td>
</tr>
<tr>
<td></td>
<td>b) Follow the instructions in <strong>To add operator data to the system</strong></td>
</tr>
</tbody>
</table>

4. Go to the **Device center > [the device you want to send data to]**.
5. Click the **Push operators** button.

**Related topics**
- About operator administration, page 27
To deactivate an operator or change the operator's lock out date

1. Click the **Explore** button from the **Operator performance** issue or go to **Operators**.
2. Select the operators.
   **Note**: An empty cell below an operator’s name indicates that the operator has access to more device types. Select only the wanted device type for each operator.
3. Select an option from the **Actions** drop down list.
4. Click the **Push all operators** button.

To close an operator’s account

When you close an operator's account, the operator cannot access any device type.

1. Go to **Operators**.
2. Select an operator.
3. Click **Close account**.

To search for operators' course status

This procedure lets you show operators' pending, non-assigned and/or completed courses:

1. Go to **Operators**.
2. From the filter group click the **Add filter** button below the **Courses** title.
3. Select the check boxes for the courses you want to search for.
4. Select the status from the list.
5. Click the **Filter** button.

**Related topics**
- About managing and assigning training courses, page 35

To assign a training course

**Prerequisites**:
- The course has been published
- The person that assigns the course must have a valid e-mail address

1. Go to **Operators**.
2. Use the filter function to make a list of operators.
3. Click the **Courses** radio button.
4. Select the course from the **Courses** drop down list.
5. Choose an option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To select all operators in the list.</td>
<td>Select the check box shown on the left side of the <strong>Operator name</strong> heading.</td>
</tr>
<tr>
<td>To select operators one by one.</td>
<td>Select all necessary check boxes in the list.</td>
</tr>
</tbody>
</table>

**Note**: you can only assign operators on one page at a time. If you select **Save current view** you can use the **page count** field to show a maximum of 100 operators per page.

6. Click the **Assign course** button.
Course status

The Operators page has symbols that show the status of operator courses:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📅</td>
<td>One or more pending courses. Put the cursor on the icon to see more information.</td>
</tr>
<tr>
<td>🎉</td>
<td>One or more courses were completed and passed. Put the cursor on the icon to see when the course was completed and its success rate.</td>
</tr>
<tr>
<td>🎉</td>
<td>One or more courses were completed but not passed. Put the cursor on the icon to see more information.</td>
</tr>
<tr>
<td>📅</td>
<td>No pending courses</td>
</tr>
<tr>
<td>🎉</td>
<td>No passed courses</td>
</tr>
</tbody>
</table>
The AQURE hospital model

About the AQURE hospital model

The AQURE system uses a hospital and department structure to group devices and operators into a logical model.

The AQURE server can manage one or more hospitals. Each hospital can have departments with devices and operators.

When you connect a device to the AQURE system for the first time, you find the new devices in the Issues list and the Device center. You must associate the device with a department in the hospital. Frequently this is the department where the device is. It can also be a department of your own making. You can for example combine the OR and Recovery departments into a new department if the operators of these departments use the same devices.

When you add operators you associate them with their home department. You select which device types they have access to and which role they have on each device type. A role could be Operator on a device of the type ABL90 FLEX analyzer. Such an operator can operate all ABL90 FLEX analyzers in her home department.

You can also give an operator access to devices in other departments. The operator has always the same role on all devices of a type. This also applies when the devices are in different departments.

If you move a device to a new department all operators of that device cannot use it until they are associated with that department.

If you add a new device of the same type to a department all operators in the department with access to that type will automatically be given access to the new device.

About Administration

You use Administration when you set up the system. Here you can:

- add, change and remove your hospital and departments
- find, change, enable/disable and remove users
- add new users
- show hidden devices
- add new reports for your system users
- manage courses
- set up FLEXLINK profiles

Related topics

- To add a device to a department, page 32
- To hide a device, page 33
User administration

About user administration

When you add users to the AQURE system they should be associated with hospital(s) and department(s). This lets them see all information related to their departments.

An administrator sees all the information available in the AQURE system and does not have to be associated with a department.

To add a new user

Prerequisite: You must log on as an Administrator.

1. Go to Administration and click the Add users button.
2. Enter the Personal details, the Logon information and the Role(s) of the user.
3. Select the operator box if the user is also to operate devices. This action adds the operator in Operators.
4. Click the Save button.
5. Select the user’s Hospital and Department.
6. Click the Add button. This lets the user see data associated with the user’s department. You can give the user access to more hospitals and departments.

To unlock a user

Prerequisite: You must log on as an Administrator.

A user who has tried to log on to the AQURE system 5 times without success is automatically locked out of the system. The administrator can unlock the user.

1. Go to Administration.
2. Click List users.
3. Click the user in the user list.
4. Click Unlock user.

Device administration

To add a device to a department

Prerequisites:
- You must log on as an Administrator
- The new device must be connected to the AQURE system

1. Go to Issues.
2. Enter "New device" and click Search.
3. Click the issue for the device.
4. Click the Explore button.
5. Click the Edit device button.
6. Select the Hospital and Department of the device from the drop down lists.
7. Enter a name for the device.
8. Click the Save button.

**Related topics**
- About hidden devices, page 33
- About Administration, page 31

### About hidden devices

When you hide a device you cannot see it in the **Device center**. For example you do this to:
- remove a device from a department temporarily
- remove test devices
- limit the types of devices

You can see the hidden device in **Administration**. A hidden device continues to make issues if it is connected to the system. When you deselect the **Hide** box, you put the device back into operation. You can then see it again in the **Device center**.

**Related topics**
- To add a device to a department, page 32
- To hide a device, page 33

### To hide a device

**Prerequisite:** You must log on as an **Administrator**.

1. Go to the **Device center** and select the device.
2. Click the **Edit device** button.
3. Select the **Hide** box.
4. Click the **Save** button.

**Related topics**
- About hidden devices, page 33
- About Administration, page 31

### To show a hidden device

**Prerequisite:** You must log on as an **Administrator**.

1. Go to **Administration**.
2. Click **Hidden devices**.
3. Select the device you want to show and click the **Edit device** button.
4. Deselect the **Hide** box.
5. Click the **Save** button.

### Configure parameter profiles

**About the parameter profile**

In **Configure parameter profiles** you can define profiles with parameters and input items for the FLEXLINK application. The profile in the FLEXLINK application corresponds to a test order that is sent to the analyzer when the operator scans the sampler ID.
The AQURE FLEXLINK system only works with Radiometer safePICO samplers, ABL800 FLEX, ABL80 FLEX and ABL90 FLEX analyzers.

To create a parameter profile

Prerequisite: You must log on as an Administrator.

This procedure lets you configure parameter profiles for the FLEXLINK sampler registration page.

1. Go to Administration.
2. Click Configure parameter profiles.
3. Click the Add button.
4. Enter the name of the parameter profile.
5. Enter the sort order of the profile.
6. Click the Save button.

To add parameters to a profile

Prerequisite: You must log on as an Administrator.

1. Go to Administration.
2. Click Configure parameter profiles.
3. Click a profile in the list.
4. Click the Add button.
5. Select the parameter from the drop down list and click the Add parameter button.
6. Repeat step 4 for more parameters.
7. Click the Save button.

To add input items to a profile

Prerequisite: You must log on as an Administrator.

Note: For more information on how to add input items to a profile contact your local Radiometer representative.

1. Go to Administration.
2. Click Configure parameter profiles.
3. Click a profile in the list.
4. Click the Add button below the Input items heading.
5. Enter the name for the input item.
   This is the name that is shown on the FLEXLINK sampler registration page.
6. Enter the key.
   The mandatory key must be the same in the AQURE system and the analyzer. If there is a space in the key on the analyzer you must enter this as an underscore "_" in the AQURE system. The key must be unique within the profile.
7. Choose from these options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text</td>
<td>Example: &quot;operator name&quot;.</td>
</tr>
<tr>
<td>Number</td>
<td>Example: &quot;21&quot; for the FIO2 %.</td>
</tr>
<tr>
<td>Floating point number</td>
<td>Example: &quot;37.5&quot; for the temperature 37.5 C.</td>
</tr>
<tr>
<td>List</td>
<td>Example: &quot;Arterial, Venous&quot; for a drop down list of sample types.</td>
</tr>
</tbody>
</table>

8. Enter a sort order.
   This is the order in which the input items are shown on the FLEXLINK registration page.

9. If necessary, enter a default value.
   For a list option the default value will automatically be selected in the drop down list.

10. If necessary, select from the list the parameter of the input item.
    For example the input item "ventilator settings" could be attached to the parameter "FIO2 (%)".

11. Click the Save button.

Course administration

About managing and assigning training courses

In Manage courses you can add training courses to the AQUIRE system. You can edit the title and description of the course and publish it. You can also publish a new version of a course. From Manage courses you can run a published course to ensure that it is OK. You can retract a course to make it unavailable to operators and remove it from the course list.

In Operators you can assign a published course to operators. The operators receive the invitation to the course by e-mail. If the operator has no e-mail address the e-mail will be sent to the person who has assigned the course.

Related topics
- To assign a training course, page 29
- To search for operators' course status, page 29
- To add a course, page 35
- To edit and publish a course, page 36
- To retract and remove a course, page 37

To add a course

Prerequisites:
- You must log on as an Administrator
- The course must be in the Scorm 2004 format
- The course must be a .zip file

1. Go to Administration > Manage courses.
2. Click the button to start to add a new course.
3. If necessary, deselect the Use title and description from course package if present box and enter title and description.
4. Click the **Browse** button.
5. Select the course.
6. Click the **Open** button.
7. Click the ✔️ button.
   The course is added and saved.

**Related topics**
- About managing and assigning training courses, page 35

---

**To edit and publish a course**

**Prerequisites:**
- You must log on as an **Administrator**
- You must have added the course

1. Go to **Administration > Manage courses.**
2. If the course has not been retracted (withdrawn) click the 🗑️ button.
3. Click the 📊 button shown on the right side of the course title.
4. Edit the title and/or description.
5. Click the ✔️ button shown on the right side of the course title.
   The course is saved.
6. Click the 📇 button.
   The course is published and can be assigned to operators.
   You can click the 🎬 button to start the course.

**Related topics**
- About managing and assigning training courses, page 35
- To retract and remove a course, page 37

---

**To publish a new version of a course**

**Prerequisite:** You must log on as an **Administrator**.

When you publish a new version of a course, it replaces the old course. Operators keep their course status from the previous version of the course.

1. Go to **Administration > Manage courses.**
2. Click the 🗑️ button shown on the right side of the course you want to republish.
   The course is retracted.
3. Click the 📊 button.
4. If necessary, edit the title and description of the course.
5. Click the **Browse** button and go to the new version of the course.
6. Select the course and click the **Open** button.
7. Click the ✔️ button.
   The course is saved.
8. Click the 📇 button.
   The course is published.
To retract and remove a course

Prerequisite: You must log on as an Administrator.

When you retract a published course it is not available to operators. When you remove a retracted course it is deleted from the Manage courses list in Administration. The course history is not deleted.

1. Go to Administration > Manage courses.
2. Click the button shown on the right side of the course you want to retract.
3. Click the button shown on the right side of the course you want to remove.

Related topics
• About managing and assigning training courses, page 35

RiliBÄK control range configuration

About RiliBÄK control ranges

You only see the RiliBÄK control ranges pages if the system is set up to comply with the German RiliBÄK regulations.

When you use the RiliBÄK control ranges it is necessary to calculate the laboratory established ranges for some parameters. If these ranges are too narrow you can use the manufacturer ranges.

Related topics
• To change to manufacturer ranges, page 37

To change to manufacturer ranges

Prerequisites:
• You must log on as an Administrator.
• The AQURE system must be set up for RiliBÄK use.
• The device must have received a minimum of one QC result.

Note: When you change from laboratory established ranges to manufacturer ranges we recommend that you clear this with the regulatory authorities.

1. Go to the Device center.
2. Select the device.
3. Click the Edit device button.
4. Click the Configure ranges button.
5. Select the Parameter from the drop down list.
   You can select parameters that are not in the B1a table or have a target value outside the B1a range.
6. Select the Level from the drop down list.
7. Click the Use manufacturer ranges button.

Related topics
• About RiliBÄK control ranges, page 37
To recalculate laboratory established ranges

Prerequisites:

• You must log on as an Administrator.
• The AQUIRE system must be set up for RiliBÄK use.
• The device must have transmitted a minimum of one QC result.

Note: When you change from laboratory established ranges to manufacturer ranges we recommend that you clear this with the regulatory authorities.

1. Go to the Device center.
2. Select the device.
3. Click the Edit device button.
4. Click the Configure ranges button.
5. Select the Parameter from the drop down list.
   You can select the parameters that are not in the B1a table or have a target value outside the B1a range.
6. Select the Level from the drop down list.
7. Click the Restart calculations button.
To subscribe to issues

1. Go to My profile.
2. Select the E-mail box.
3. Choose an option and follow the steps for it.

<table>
<thead>
<tr>
<th>Option</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>To receive an e-mail when an issue is changed or a new issue is added to the system.</td>
<td>Click the Subscribe to all issues link.</td>
</tr>
<tr>
<td>To receive an e-mail when you add a new issue, comment on an issue or when an issue is assigned to you.</td>
<td>Click the Subscribe to all issues related to me link.</td>
</tr>
</tbody>
</table>

4. Click the Save button.
Issues that the AQUARE system creates

The table shows the issue types that the AQUARE system can create. The text in angle brackets is replaced by a specific text received by the system.

The administrator of the AQUARE system can, for each issue type, write standard operating procedures for the POC coordinators. The administrator can also use the table to find out which issue types should be enabled for the hospital.

<table>
<thead>
<tr>
<th>Type</th>
<th>Severity</th>
<th>Summary</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration</td>
<td>High</td>
<td>Device <code>&lt;device name&gt;</code>: Calibration failure</td>
<td>Calibration failed on these parameters <code>&lt;parameter name&gt;</code> for device: <code>&lt;device name&gt;</code></td>
</tr>
<tr>
<td>Device error</td>
<td>High</td>
<td>Device <code>&lt;device name&gt;</code> has an error</td>
<td>All errors with the status Critical from Radiometer devices</td>
</tr>
<tr>
<td>Operator performance</td>
<td>High</td>
<td><code>&lt;Number of failed operators&gt;</code> out of <code>&lt;total number of active operators&gt;</code> operators did not satisfy the performance targets for <code>&lt;month&gt;</code>.</td>
<td><code>&lt;Number of failed operators&gt;</code> out of <code>&lt;total number of active operators&gt;</code> operators did not do the required number of QC/patient measurements and/or they had too many QC/patient measurements that failed in <code>&lt;month&gt;</code></td>
</tr>
<tr>
<td>QC range violation</td>
<td>High</td>
<td>QC range violation for <code>&lt;device name&gt;</code> on <code>&lt;parameter(s)&gt;</code></td>
<td>QC ranges for <code>&lt;device name&gt;</code> have been violated on the these parameter(s): <code>&lt;parameter(s)&gt;</code></td>
</tr>
<tr>
<td>Rule violation</td>
<td>Normal</td>
<td>Liquid QC missing for device: <code>&lt;device name&gt;</code></td>
<td>Liquid QC for unit use device: <code>&lt;device name&gt;</code> is missing. See RiliBÄK section 2.1.5 (2).</td>
</tr>
<tr>
<td>Rule violation</td>
<td>Low</td>
<td>RiliBÄK rule violation on device: <code>&lt;device name&gt;</code>. See section 2.1.1 (2).</td>
<td>Device: <code>&lt;device name&gt;</code> must do a QC measurement within 16 hours prior to patient measurements. See RiliBÄK section 2.1.1 (2).</td>
</tr>
<tr>
<td>Type</td>
<td>Severity</td>
<td>Summary</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------</td>
<td>---------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Rule violation</td>
<td>Low</td>
<td>RiliBÄK rule violation on device: <em>&lt;device name&gt;</em>. See section 2.1.1 (2) or section 2.1.6 (1).</td>
<td>RiliBÄK sections 2.1.1(2) and 2.1.6(1) require two QC measurements within a calendar day of 24 hours</td>
</tr>
<tr>
<td>Statistical period violation</td>
<td>Normal</td>
<td>Root mean square deviation for <em>&lt;device name&gt;</em> on <em>&lt;parameter(s)&gt;</em> is too high</td>
<td>The root mean square deviation for the control cycle is greater than the allowed maximum root mean square deviation</td>
</tr>
<tr>
<td>Statistical period violation</td>
<td>Normal</td>
<td>Statistical evaluation violation for <em>&lt;device name&gt;</em> on <em>&lt;parameter(s)&gt;</em>.</td>
<td>The root mean square deviation for the control cycle is greater than the allowed maximum root mean square deviation</td>
</tr>
<tr>
<td>Statistical period violation</td>
<td>Normal</td>
<td>Statistical evaluation violation for <em>&lt;device name&gt;</em> on <em>&lt;parameter(s)&gt;</em>.</td>
<td>The root mean square deviation for the control cycle is greater than the allowed maximum root mean square deviation</td>
</tr>
<tr>
<td>Statistical period violation</td>
<td>Normal</td>
<td>Statistical evaluation violation for <em>&lt;device name&gt;</em> on <em>&lt;parameter(s)&gt;</em>.</td>
<td>The root mean square deviation for the control cycle is greater than the allowed maximum root mean square deviation</td>
</tr>
<tr>
<td>Task</td>
<td>Normal</td>
<td>New device <em>&lt;device name&gt;</em></td>
<td>When a new device is connected to the system it must be registered</td>
</tr>
<tr>
<td>Task</td>
<td>Normal</td>
<td>New operator <em>&lt;operator name&gt;</em></td>
<td>Operator <em>&lt;operator name&gt;</em> was not registered in the system when a QC result arrived from device <em>&lt;device name&gt;</em>. Register the operator in the system</td>
</tr>
<tr>
<td>Task</td>
<td>Low</td>
<td>Operator missing. <em>&lt;device name&gt;</em></td>
<td>The QC result has no operator. You must add an operator to it.</td>
</tr>
</tbody>
</table>

**Related topics**

- [What is an issue?](#), page 5

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**Device actions for Radiometer analyzers**

**Device actions for ABL90 FLEX analyzers**

Depending on the state of the analyzer you can send these device actions to the ABL90 FLEX analyzers:
<table>
<thead>
<tr>
<th>Command</th>
<th>Action on ABL90 FLEX analyzer</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration</td>
<td>Starts a calibration of all parameters</td>
<td>To recalibrate the analyzer, all parameters</td>
</tr>
<tr>
<td>Rinse</td>
<td>Starts a complete rinse of the analyzer.</td>
<td>To remove traces of a sample, calibrating solution or a QC solution from the liquid transport system</td>
</tr>
<tr>
<td>Tubing refill</td>
<td>Refills the transport system with liquid from all consumable bottles</td>
<td>To remove possible air bubbles from the calibration solutions</td>
</tr>
<tr>
<td>Liquid sensor adjust</td>
<td>Fills and empties the liquid transport system</td>
<td>To measure and adjust the Empty and Full sensor settings for all Liquid Sensors</td>
</tr>
<tr>
<td>Cleaning</td>
<td>Starts a complete cleaning program</td>
<td>To clean all pathways where blood or quality control solutions can travel. You use this to remove built up protein, lipid or other blood products.</td>
</tr>
<tr>
<td>Pump calibration</td>
<td>Rotates and calibrates the pumps</td>
<td>To make sure that the pumps function correctly. During troubleshooting, helps to remove the possibility of a damaged pump tubing.</td>
</tr>
<tr>
<td>Lock analyzer</td>
<td>Locks the analyzer. Calibrations and QC schedules can still take place.</td>
<td>To prevent analysis of blood samples. This is often used if there is an analyzer problem.</td>
</tr>
<tr>
<td>Lock parameter</td>
<td>Locks the parameter on the analyzer</td>
<td>To prevent analysis of a parameter. The message you type is shown on the analyzer screen and saved in the activity log of the analyzer.</td>
</tr>
<tr>
<td>Unlock parameter</td>
<td>Unlocks the parameter on the analyzer</td>
<td>To enable analysis of a parameter</td>
</tr>
<tr>
<td>Unlock analyzer</td>
<td>Unlocks the analyzer</td>
<td>To return analyzer from Locked to Ready state</td>
</tr>
<tr>
<td>Set analyzer message</td>
<td>Shows a message on the screen of the analyzer. Messages can be added, edited or deleted.</td>
<td>To send a message to operators of the analyzer. For example: please use a different analyzer.</td>
</tr>
<tr>
<td>Start built-in QC</td>
<td>Starts the internal solution(s) for the entered slot (A, B or C)</td>
<td>To evaluate analyzer performance to ensure the reliability, accuracy and precision of patient sample results</td>
</tr>
</tbody>
</table>

**Related topics**
- [About the Device center](#), page 23
- [To start an action on a device](#), page 25
- [To lock a parameter](#), page 25

**Device actions for AQT90 FLEX analyzers**

Depending on the state of the analyzer you can send these device actions to the AQT90 FLEX analyzers:
Command | Action on AQT90 analyzer | Purpose
--- | --- | ---
Lock analyzer | Locks the analyzer. Calibrations and QC schedules are not locked. | To prevent analysis of blood samples. This is used if there is an analyzer problem.
Lock parameter | Locks the parameter on the analyzer | To prevent analysis of a parameter. The message you enter will be shown on the analyzer screen and saved in the activity log of the analyzer.
Unlock parameter | Unlocks the parameter on the analyzer | Enables analysis of a parameter
Unlock analyzer | Unlocks the analyzer | Return analyzer from Locked to Ready state.
Set analyzer message | Shows a message on the screen of the analyzer. Messages can be added, edited or deleted. | To send a message to operators of the analyzer. For example: please use a different analyzer.

Related topics
- About the Device center, page 23
- To start an action on a device, page 25
- To lock a parameter, page 25

Device actions for ABL800 FLEX and ABL700 series analyzers

Depending on the state and type of the analyzer you can send these device actions to the ABL800 FLEX and ABL700 series analyzers:

Command | Action on ABL800 FLEX and ABL700 series analyzer | Purpose
--- | --- | ---
1-point calibration | Initiates a 1-point calibration of all parameters | Recalibrate the analyzer, all parameters
2-point calibration | Initiates a 2-point calibration of all parameters | Recalibrate the analyzer, all parameters
Rinse | Initiates a complete rinse of the analyzer | To remove traces of a sample, calibrating solution or a QC solution from the liquid transport system
Refill/Tubing refill | Refills the transport system with liquid from all consumable bottles | To remove any possible air bubbles from the calibration solutions
LS adjust/ Liquid sensor adjust | Fills and empties the liquid transport system | To measure and adjust the Empty and Full sensor settings for all Liquid Sensors
Cleaning | Initiates a complete cleaning program | Clean all pathways where blood or quality control solutions can travel. Particularly for removing built up protein, lipid or other blood products.
<table>
<thead>
<tr>
<th>Command</th>
<th>Action on ABL800 FLEX and ABL700 series analyzer</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump(s) calibration</td>
<td>Pumps can be rotated and calibrated</td>
<td>Ensure correct function of the pumps. During troubleshooting, helps to eliminate the possibility of a damaged pump tubing.</td>
</tr>
<tr>
<td>Interrupt activity</td>
<td>Interrupts any initiated function currently running on the analyzer (regardless of whether remotely or locally initiated)</td>
<td>Return analyzer from Busy to Ready state</td>
</tr>
<tr>
<td>Enter standby</td>
<td>Enters analyzer into standby. Calibration and QC schedule is suspended.</td>
<td>Reduce consumption of solutions when the analyzer is not being used. Enter StandBy - Enter date and time you wish the analyzer to automatically exit standby.</td>
</tr>
<tr>
<td>Exit standby</td>
<td>Exits standby. The highest rated pending or overdue calibration is initiated within three minutes of exit standby.</td>
<td>Return analyzer from stand-by to Ready state including ensuring the analyzer is correctly calibrated</td>
</tr>
<tr>
<td>Unlock analyzer</td>
<td>Unlocks the analyzer</td>
<td>Return analyzer from Locked to Ready state</td>
</tr>
<tr>
<td>Lock analyzer</td>
<td>Locks the analyzer. Calibrations and QC schedules are not suspended.</td>
<td>Prevent analysis of blood samples. This is particularly used if there is an analyzer problem.</td>
</tr>
<tr>
<td>Set analyzer message</td>
<td>Displays a message on the screen of the analyzer. Messages can be added, edited or deleted.</td>
<td>To send a message to operators of the analyzer. For example: please use a different analyzer.</td>
</tr>
<tr>
<td>High crea check measure</td>
<td>Checks the analyzer performance at a high creatinine level</td>
<td>Allows performance of an unscheduled high crea check - either as part of a troubleshooting or just to satisfy a wish for an extra check.</td>
</tr>
</tbody>
</table>

**Related topics**
- About the Device center, page 23
- To start an action on a device, page 25
- To lock a parameter, page 25

**Device actions for ABL80 FLEX series analyzers**

Depending on the state of the analyzer you can send these device actions to the ABL80 FLEX series analyzers:
### Command on ABL80 FLEX series analyzer

<table>
<thead>
<tr>
<th>Command</th>
<th>Action on ABL80 FLEX series analyzer</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>System cycle</td>
<td>Initiates a calibration and 3 levels of automatic QC</td>
<td>To troubleshoot a failed parameter</td>
</tr>
<tr>
<td>Rinse</td>
<td>Initiates a complete rinse of the analyzer</td>
<td>To remove traces of a sample, calibrating solution or a QC solution from the liquid transport system</td>
</tr>
<tr>
<td>Lock analyzer</td>
<td>Locks the analyzer. Calibrations and QC schedules are not suspended.</td>
<td>Prevent analysis of blood samples. This is particularly used if there is an analyzer problem.</td>
</tr>
<tr>
<td>Unlock analyzer</td>
<td>Unlocks the analyzer</td>
<td>Return analyzer from Locked to Ready state</td>
</tr>
<tr>
<td>Set analyzer message</td>
<td>Displays a message on the screen of the analyzer. Messages can be added, edited or deleted.</td>
<td>To send a message to operators of the analyzer. For example: please use a different analyzer.</td>
</tr>
</tbody>
</table>

### Related topics
- About the Device center, page 23
- To start an action on a device, page 25
- To lock a parameter, page 25

### Device actions for ABL5 analyzers

Depending on the state of the analyzer you can send these device actions to the ABL5 analyzers:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action on ABL5 analyzer</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-point calibration</td>
<td>Initiates a 1-point calibration of all parameters</td>
<td>Recalibrate the analyzer, all parameters</td>
</tr>
<tr>
<td>2-point calibration</td>
<td>Initiates a 2-point calibration of all parameters</td>
<td>Recalibrate the analyzer, all parameters</td>
</tr>
<tr>
<td>Rinse</td>
<td>Initiates a complete rinse of the analyzer</td>
<td>To remove traces of a sample, calibrating solution or a QC solution from the liquid transport system</td>
</tr>
<tr>
<td>Enter standby</td>
<td>Enters analyzer into standby. Calibration and QC schedule is suspended.</td>
<td>Reduce consumption of solutions when the analyzer is not being used. Enter StandBy - Enter date and time you wish the analyzer to automatically exit standby.</td>
</tr>
<tr>
<td>Exit standby</td>
<td>Exits standby. The highest rated pending or overdue calibration is initiated within three minutes of exit standby.</td>
<td>Return analyzer from stand-by to Ready state including ensuring the analyzer is correctly calibrated</td>
</tr>
<tr>
<td>Unlock analyzer</td>
<td>Unlocks the analyzer</td>
<td>Return analyzer from Locked to Ready state</td>
</tr>
<tr>
<td>Command</td>
<td>Action on ABL5 analyzer</td>
<td>Purpose</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Lock analyzer</td>
<td>Locks the analyzer. Calibrations and QC schedules are not suspended.</td>
<td>Prevent analysis of blood samples. This is particularly used if there is an analyzer problem.</td>
</tr>
<tr>
<td>LS adjust/Liquid sensor adjust</td>
<td>Fills and empties the liquid transport system</td>
<td>To measure and adjust the Empty and Full sensor settings for all Liquid Sensors</td>
</tr>
</tbody>
</table>

**Related topics**
- [About the Device center](#), page 23
- [To start an action on a device](#), page 25
- [To lock a parameter](#), page 25
System performance

The procedures described in this manual must be observed in order to ensure proper system performance, and to avoid hazards.

Radiometer cannot provide or verify system performance characteristics if the system is not installed, used and maintained in accordance with Radiometer procedures or if accessories not meeting the specifications provided by Radiometer are used.

Radiometer warrants that the data media on which the software included in the system is furnished is free from defects in material and workmanship under normal use for three (3) months from the date of delivery as evidenced by a copy of invoice or receipt.

Third-party software

By using the system, you accept the terms of the Software License Agreement(s) of the provider(s) of the software as shown in the End User License Agreement(s) delivered with the AQURE system. If you cannot accept the terms of the Software License Agreement(s), you should not use the system, but immediately contact your provider for a return of the system and a refund of the purchase price.

Warranties and disclaimer

Radiometer makes no warranties, express or implied, other than expressly stated.

Any warranties expressly stated in this document are conditional upon the system being installed, used and maintained in accordance with Radiometer procedures, including that only accessories meeting the specifications provided by Radiometer are used.

Radiometer disclaims any liability for system performance if the system is not installed, used and maintained in accordance with Radiometer procedures or if accessories not meeting the specifications provided by Radiometer are used.

Further, Radiometer disclaims any liability for system performance if the system is not installed, used and maintained in accordance with Radiometer procedures or if accessories not meeting the specifications provided by Radiometer are used.

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