Xprecia Prime

Coagulation Meter

USER GUIDE

79015 v1.2 (20211215)

Original Instructions

Any software screens, hardware details or test results shown in this manual are for illustrative purposes only. The information shown on your meter may differ.

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1. Introducing Xprecia Prime™

General warnings and precautions

- All accessories used with this product must meet the manufacturer's specifications
- This device is intended only for use by Healthcare Professionals and is not for self-testing.

Test strips:

- **Only use Universal Biosensors Xprecia Prime™ PT strips.**
  Other strips – including other Xprecia strips (e.g. Siemens PT/INR Strips for Xprecia™ Systems) – **will not work** with Xprecia Prime™.
- **Always close the vial lid after a strip has been taken out.**

Electrical safety:

- Only use the USB cable provided by Universal Biosensors. If you need a replacement USB cable, contact Customer Support (see Page 64).
- The Xprecia Prime™ meter contains a lithium-ion rechargeable battery which must be treated with care:
  - Do not attempt to access the battery; if your battery is not performing adequately, contact Customer Support (see Page 64).
  - Do not place the meter near a heat source or in a hot environment (e.g. an automobile parked in the sun).
  - If you suspect the battery may have been punctured, crushed or damaged, contact Customer Support (see Page 64).
- Failure to follow the above battery-care instructions could result in serious injury or death due to a battery catching fire, exploding or leaking.
- When connecting the meter to external devices (such as USB power sources), ensure those devices are in compliance with local safety regulations.
- The power supply that comes with your meter is for indoor use only.
- The power supply is also served to disconnect the device. Do not position the equipment so that it is difficult to operate the disconnecting device.

Biological safety:

- Always follow the safety procedures and precautions listed here and throughout this user guide, plus those adopted by your healthcare facility.
- Xprecia Prime™ should only be used by operators trained in handling biohazardous materials. Parts of the Xprecia Prime™ meter could become contaminated during testing and thus capable of transmitting blood-borne pathogens between patients and healthcare professionals. For more information, consult:
    - "FDA Public Health Notification: Use of Fingerstick Devices on More than One Person Poses Risk for Transmitting Bloodborne Pathogens: Initial Communication" (2010), http://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/ucm224025.htm
    - "Protection of Laboratory Workers From Occupationally Acquired Infections; Approved Guideline-Fourth Edition", Clinical and Laboratory Standards Institute (CLSI) M29-A4.
    - "Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings 2007", http://www.cdc.gov/hicpac/2007ip/2007isolationprecautions.html
    - "CDC Clinical Reminder: Use of Fingerstick Devices on More than One Person Poses Risk for Transmitting Bloodborne Pathogens", (2010), http://www.cdc.gov/injectionsafety/Fingerstick-DevicesBGM.html
    - Biosafety in Microbiological and Biomedical Laboratories (BMBL) found at http://www.cdc.gov/biosafety/publications/bmbl5/
- Each LQC kit makes use of human source material. Each donor or donor unit was tested and found to be negative for human immunodeficiency virus (HIV) 1 and 2, hepatitis B virus (HBV), and hepatitis C virus (HCV) using tests that conform with the In Vitro Diagnostic Directive of the EU or are approved by the FDA. Because no known test can offer complete assurance of the absence of infectious agents, all human-derived products—such as the lyophilized plasma in this kit—should be handled with appropriate caution.

About the Xprecia Prime™ system

The Xprecia Prime™ system is designed to monitor blood coagulation. It measures the time it takes for a sample of blood to clot and reports the result as an International Normalised Ratio (INR). INR results can vary from test to test due to health conditions. If it is too low, there is a greater than normal risk of blood clots forming; if it is too high, there is a greater than normal risk of bleeding.

Anticoagulant medication is a common treatment in patients susceptible to blood clots. Blood clots can cause serious conditions, such as deep vein thrombosis (a blood clot in the veins of the legs), pulmonary embolism (a blood clot in the lungs), or a stroke (a blood clot in a blood vessel in the brain). Anticoagulants are designed to reduce potentially harmful blood clotting.

The Xprecia Prime™ system has been specifically designed to monitor INR of patients undergoing anticoagulation therapy with warfarin. Vitamin K is essential to the normal blood clotting (coagulation) process; warfarin acts by making the body less efficient at using vitamin K to make clotting factors (factor II, VII, IX and X). INR is sensitive to changes in these factors so it is essential that INR be monitored in patients taking warfarin. A higher dose of warfarin might be necessary if the INR is too low; a lower dose if it is too high.

Intended Use

The Xprecia Prime™ system is for determining the International Normalised Ratio (INR, related to prothrombin time) during the monitoring of oral anticoagulation therapy with warfarin (a vitamin K antagonist) in fresh capillary whole blood. It is an in-vitro diagnostic device intended for multi-patient use in professional healthcare settings including point of care settings.

Your Xprecia Prime™ kit

Your Xprecia Prime™ kit contains the following items:

1.

Meter

2.

This User Guide

3.

Power Supply/
USB Cable

4.

Spare Cap

Quick Start Guides – patient test and LQC test

Cleaning and disinfecting the Xprecia Prime™ system

The meter must be cleaned and disinfected after each patient test and each LQC test using the disinfecting wipe recommended by Universal Biosensors (see “Cleaning the meter” on Page 31).

Key features of the Xprecia Prime™ system

- hand-held and portable (can be operated while tilted to an angle up to 45 degrees)
- easy sample application with small (8 µL) sample volume
- external quality control (LQC) tests with a configurable lock-out feature
- barcode entry of strip information
- strip ejection mechanism
- rich user interface supporting multiple languages
- internal battery with power monitoring
- operator identification and access control
- patient identification
- memory feature (for displaying past test results and errors)
- export of past test results to an external device

How the Xprecia Prime™ system works

The Xprecia Prime™ system analyses a blood sample taken from the patient by fingerstick. The sample is transferred from the patient's finger to a test strip that has been inserted in the Xprecia Prime™ meter. The blood is mixed with a reagent contained within the strip and the meter detects when clotting has occurred. The result is then displayed on the meter's screen in either units known as the International Normalised Ratio (INR) or in calibrated seconds.

Up to 1000 records can be stored in the meter's memory with patient and operator identification for each record. You can display details about each of those records.

Quality control

Integrated quality control

The Xprecia Prime™ meter has a number of integrated quality-control functions:

- A check of components and functions is performed every time the meter is turned on.
- The barcode information on the strip and vial are read by a scanner inside the Xprecia Prime™ meter. The meter then checks:
  - the strip's expiration date and lot information; and
  - the strip's calibration values.
- During the test, the strip's integrity is monitored. The strip's temperature is also controlled to ensure test results are reproducible.

An error is reported if the meter fails any of the above checks. Warning and error messages are described in Chapter 8 (Troubleshooting) on page 52.

External quality control

To help your facility comply with regulatory requirements, you can run a check of the system at any time using the optional Siemens Xprecia™ Systems PT Controls. This check—called a LQC test—compares the measurement of a control sample against a pre-determined acceptable range of readings.

LQC tests are explained in detail in chapter 4.

Other references

In addition to this user guide, further information about the Xprecia Prime™ system can be found in the following references.

Quick Start Guides

Your Xprecia Prime™ kit includes a quick start guide (QSG) that provides a quick description of the basic steps in a patient test and another QSG related to LQC (external liquid quality control) tests.

Xprecia Prime™ test strips instructions for use

Instructions for using the Xprecia Prime™ test strips are provided with the strips (sold separately). See “Ordering details” on page 64.

Siemens Xprecia™ Systems PT Controls instructions for use

Instructions for using the Siemens Xprecia™ Systems PT Controls are provided with the kit (sold separately). See “Ordering details” on page 64.

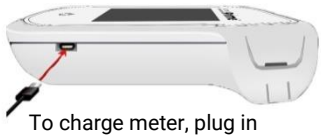
2. Getting started

Powering the meter

The Xprecia Prime™ meter is charged via a micro USB cable and AC power supply (included). It can also be charged using a micro USB cable connected to another suitable power source (such as a USB port on a computer).

It is best to make sure that the meter is fully charged before first use.

AC power supply
and cable



To charge meter, plug in
AC power supply and connect the USB cable

Your AC power supply comes with a range of plugs. Find the right plug for your region then follow the instructions below to prepare your power supply for use.

Step 1: **remove the plastic insert (if present)**

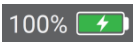
Slide down the tab, then lift the insert to remove.

Step 2: fit the insert for your region

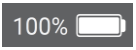
First, place the insert as shown below (left), then press down as shown below (middle). Test that the insert is fitted correctly by gripping the insert and pulling up as shown below (right).

Power indicators

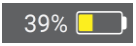
A battery icon is at the top right corner of the screen with colour coding as follows:



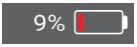
Green: power supply plugged in, battery charging.



White: meter has sufficient battery charge.



Yellow: moderately-low battery; charge soon.

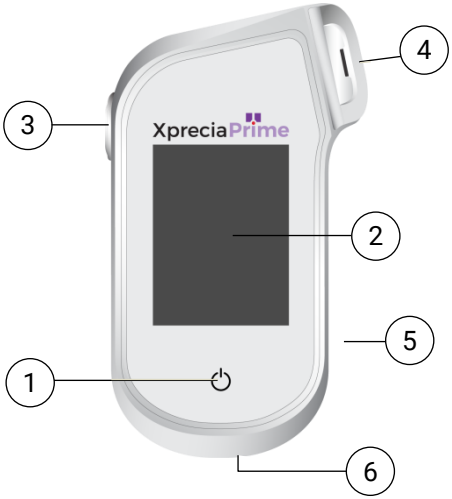


Red: critical battery; charge before running a test on battery power.

Parts of the Xprecia Prime™ meter

1. Power button
2. Touch screen display
3. Test strip eject button
4. Test strip port and protective cap
5. USB port
6. USB

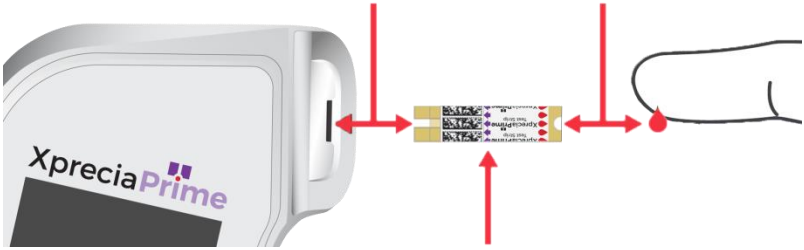
6.Barcode reader



Xprecia Prime™ PT test strips

Electrodes: Insert this end into the meter's strip port.

Target Area: Apply sample here when prompted by meter.



Strip Barcode: Scan this barcode when prompted by the meter (the barcode reader can be found on the bottom of the meter).

- Use a test strip only once and dispose of it in biohazard waste after use.
- Always keep unused strips in their original vial with the lid firmly closed.

First time use

Turning the meter on and off

To turn the meter on, touch the power button briefly.

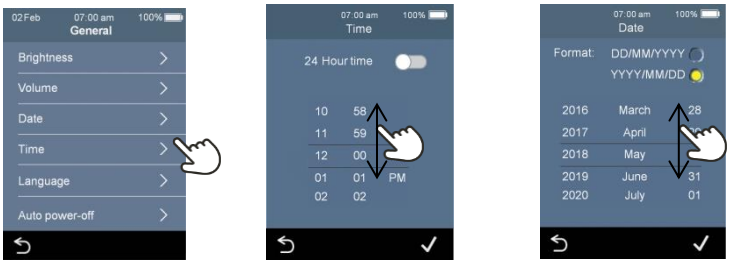
You can turn the meter off by touching the power button for several seconds and answering yes when prompted for confirmation.

If the power button or touch screen are not responding, you can force the meter to shut down by disconnecting the external power supply and holding your finger on the power button for around 15 seconds until the screen goes black.

Setting the date and time

Before you run any tests you should check the date and time (displayed at the top of the screen). If the date and time are not correct, you will need to set them as follows:

1. From the **Home** screen, touch the *SETTINGS* button to navigate to the **Settings** screen, then select *General* and then *Time*
2. Swipe to set the correct time and then touch ✓, then select *Date*
3. Swipe to set the correct date and then touch ✓ to confirm your selection



Configuring access control

Log in options

You can configure your meter to limit access. When access is limited, users will be forced to log in before reaching the home screen. You can also define special users (called *Supervisors)* that have access to advanced configuration options (see Page 45 for more details).

In order to enable log in, you will first need to set up an operator list (see below).

To log out, simply turn off the meter.

Operator list

An operator list is required for log in to be enabled. The operator list contains a list of the operators that can use the meter. You can define which operators are *Supervisors*. For detailed instructions on setting up an Operator list, see Page 50.

3. Running a patient test

What you will need

To conduct a test you will need:

1. Your Xprecia Prime™ meter
2. A vial of Xprecia Prime™ test strips
3. A lancet (21 to 23 gauge, 1.8 to 2.0 mm depth) of your choice (purchased separately)
4. Alcohol swab/wipe and sterile gauze (purchased separately)
5. CaviWipes™ disposable disinfecting wipes (purchased separately)

When running a patient test, do:

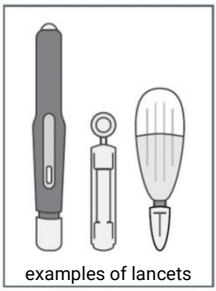
- **Only use** Universal Biosensors Xprecia Prime™ PT Test Strips. Other test strips (including other Xprecia test strips) **will not work** with Xprecia Prime™.
- Always follow the safety procedures and precautions listed here and throughout the user guide, and those adopted by your healthcare facility.
- Always wear a new pair of protective gloves when testing each patient.
- Always clean and disinfect the meter between each use (for instructions, see Page 31).
- Use only auto-disabling, single-use lancing devices.
- Keep the meter as still and level as possible during the test.
- Only use the system when the room temperature is between 15 °C and 32 °C (59 °F to 89 °F) and the relative humidity is less than 80%. (See “Technical specifications” on page 68 for Transport and Storage conditions).
- Always store test strips in their original vial with the cap firmly snap closed. **Close the strip vial securely (until you hear a “click”) as soon as you have removed your test strip.** This will protect the remaining strips in the vial.
- When you use a test strip vial for the first time, record the discard date on the vial label in the space provided. This discard date is 3 months after the vial is first opened.
- **Always store test strips between 2 °C and 30 °C (35.6 °F and 86 °F).**
- Use a test strip within 10 minutes of removing it from the vial.
- Use each test strip only once and discard after use.
- Apply the blood sample to the test strip within 30 seconds of sample collection.
- Apply the blood sample to the test strip within 4 minutes of being prompted to do so by an “apply sample” message on the meter screen.
- Collect only capillary blood (e.g. from a fingerstick) for testing.

When running a patient test, do not:

- Do not insert a test strip into the strip port more than once. A test strip that is inserted twice might fail to make a proper electrical contact with the meter.
- Do not bump the test strip or meter after you apply the sample or while the test is in progress.
- Do not use a vial of test strips if the expiration date recorded on the label has passed. The meter will not allow you to use an expired test strip.
- Do not use a vial of test strips after 3 months has passed since the vial was first opened (you must record the discard date on the vial when you first open the vial).
- Do not handle a test strip with wet hands because moisture can damage the strip.
- Do not use a test strip that has been dropped or which may have been contaminated.
- Do not use a test strip if it appears damaged in any way.
- Do not use venous whole blood (e.g. blood drawn through a syringe).
- Do not apply the sample to the test strip until you are prompted to do so by the “apply sample” message on the meter screen.
- Do not touch a test strip with wet hands or wet gloves because moisture can damage the strip.
- Never add more sample to the test strip after the analysis has begun.

Preparing to run a patient test

1. Prepare a clean and tidy environment.
2. You and the patient must wash your hands in warm, soapy water and then dry them.
3. Identify the patient's finger from which a fingerstick sample will be obtained. Ensure that the finger does not show evidence of a previous fingerstick.
4. In preparation for taking the sample, clean the patient's finger with an alcohol wipe and allow to air dry.
5. Prepare a new lancet according to the manufacturer's instructions. See examples of lancets below.



How to perform a patient test

1. Touch and hold the power button until the meter turns on

When the meter boot process is complete, the home screen will appear.

You may need to log in with your Operator ID and password (check with your administrator for details).

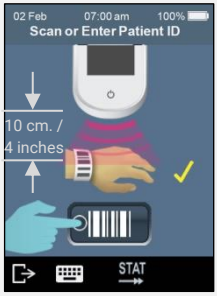
2. From the *Home* screen, tap on the *TEST* button

You can exit a test at any time by touching the button on the bottom left of the screen.

3. Enter Patient ID

If so configured, you will be prompted for the Patient ID.

Enter the Patient ID by barcode or using the onscreen keyboard. You can switch between barcode/keyboard by touching the button at the bottom of the screen.

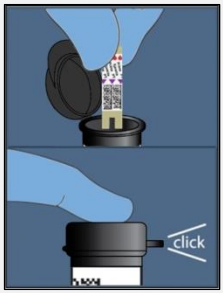


4. Remove a test strip from its vial

Firmly close the vial immediately after removing the strip.

Ensure that your gloved hands are clean and dry to avoid contaminating or damaging the test strips.

Once you have removed the test strip from a vial, you should conduct the test within 10 minutes.



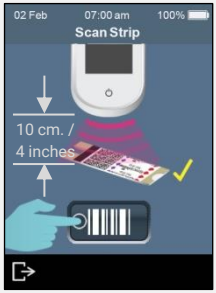
To avoid a potentially inaccurate test result, you must use the strip within 10 minutes of removing it from the vial.

Do not use test strips past their expiration date (printed on the label of the vial) or from a vial that was first opened more than 3 months ago.

5. Scan strip barcode

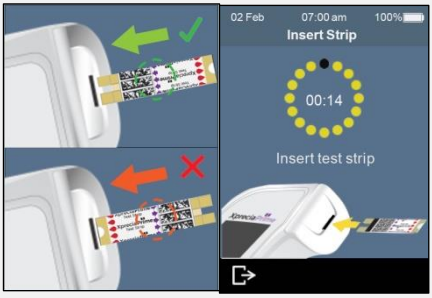
Tap the scan barcode button to scan the strip barcode.
The meter will beep when the barcode is scanned.

Note: When using a test strip from a new vial, you will be prompted to scan the vial after inserting the strip.



6. Insert the strip

Following the on-screen instructions and with the strip's print-side facing upward, follow the direction of the arrows and gently but firmly insert the test strip into the test strip port.



You must always insert the exact strip whose barcode was scanned in step 5.

7. Meter prepares

Wait for the meter to prepare.

When the meter is ready, the **Apply sample now** screen will appear.

DO NOT apply the sample until prompted.

8. Obtain sample

Place the lancet firmly against the finger and activate the trigger (see your selected lancet's instructions for details).

Gently squeeze from the base of the finger to form a drop of blood. ***Wipe away this first drop***, then gently squeeze again to form a second drop.

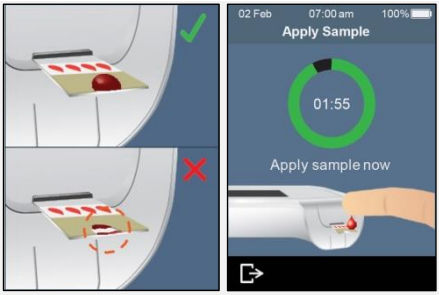
If the blood smears or runs, wipe it off with a tissue and gently squeeze another drop.

The drop should be about the same size as the test strip target area (the white semi-circular notch at the base of the strip).

Use the lancet only once and dispose of it in biohazard waste after use.

9. Apply the sample

When the meter moves to the **Apply Sample** screen, transfer the hanging drop of blood from the finger to the target area (the white semi-circular notch to the base of the strip). The sample should fill the entire target area.



You must apply the blood to the test strip within 30 seconds of lancing.

After the sample is applied, do not bump the meter or strip until the final result is displayed.

Do not tilt the meter at extreme angles while running a test. If the meter is tilted too much in any direction before sample application, a warning screen will prompt you to hold it level. If the meter is tilted after sample application, an error will occur and the test will abort.

Ensure enough sample is applied to fill the small white semi-circle notch target area on the strip.

If you spill sample into the meter's strip port, clean the meter using the instructions on Page 31.

10. Analysis in progress

During analysis, a bar on the bottom of the screen will show progress and the status of the strip's internal quality control check. When the analysis is complete, a **Result** screen will appear.

Be careful not to bump the meter or strip while the sample is being analysed.

11. Result screen

When the test is complete, the result will be displayed. Units of INR and seconds can be shown. To switch units, touch unit specifier beside the result.

To exit, touch .

Unexpected results

If an unexpected result is reported, or if you are concerned that a result does not match the patient's symptoms or history, the test should be repeated with a fresh fingerstick. If a similar result is obtained, please test by other means (e.g. laboratory PT/INR). Differences in reagents, instruments, and pre-analytical variables can affect INR results. This should be considered when comparing different INR/PT test methods[1]. Inconsistent results could indicate poor test strip storage, interference by certain drugs, changes in diet, or meter malfunction.

12. Eject strip and clean meter

Hold the meter over a biohazard waste bin so that the strip points towards the opening of the bin, then gently press the eject button to discard the test strip. For disposal instructions, see Page 70.

You will be reminded to clean the meter and strip port.

You must clean and disinfect the meter and strip port after each use (see Page 31 for instructions).

1. WHO Expert Committee on Biological Standardization. Thirty-third Report. Geneva, World Health Organization, 1983 (WHO Technical Report Series, No. 687).

4. Running a LQC test

The Xprecia Prime™ meter has a number of integrated quality control functions (see page 6).

To help your facility comply with regulatory requirements you can run a check of the system at any time using the optional Siemens Xprecia™ Systems PT Controls.

Each Siemens Xprecia™ Systems PT Controls kit contains vials of plasma and diluent. The plasma needs to be reconstituted with the diluent to produce the control solution. This control solution is then analysed by the Xprecia Prime™ meter.

Supervisors can configure the meter to lock out patient tests if LQC tests are not performed often enough or if a LQC test fails. See Page 47 for details.

To purchase Siemens Xprecia™ Systems PT Controls, see “Ordering details” on page 64.

What you will need

Items necessary to conduct a test are as follows:

1. A Siemens Xprecia™ Systems PT Controls kit which includes:
    - 8 bottles of plasma (4 x Level 1 and 4 x Level 2)
    - 8 bottles of diluent
    - 8 pipettes
    - Instructions for use
2. The Xprecia Prime™ meter you wish to test
3. A vial of Xprecia Prime™ test strips
4. CaviWipes™ disposable disinfecting wipes (purchased separately)

Warnings

When running a LQC test, do:

- **Only use** Universal Biosensors Xprecia Prime™ PT Test Strips. Other test strips (including other Xprecia test strips) **will not work** with Xprecia Prime™.
- Only use Siemens Xprecia™ Systems PT Controls with the Xprecia Prime™ meter.
- Always follow the safety procedures and precautions listed here and throughout the user guide, and those adopted by your healthcare facility.
- Always wear protective gloves when performing LQC tests.
- Only use the system when the room temperature is between 15 °C and 32 °C (59 °F to 89 °F) and the relative humidity is less than 80%.
- Always store test strips in their original vial and with the cap firmly closed.
- Use a strip within 10 minutes of removing it from the vial.
- When you use a test strip vial for the first time, record the discard date on the vial label in the space provided. This discard date is 3 months after the vial is first opened.
- Only use a test strip once and discard after use.
- Use the control solution—that is, plasma that has been reconstituted with diluent—within 25 minutes of reconstitution (60 minutes if refrigerated).
- Dispose of hazardous or biologically contaminated materials according to the practices of your clinic. Discard all materials in a safe and acceptable manner, and in compliance with all government requirements.

When running a LQC test, do not:

- Do not use a vial of test strips if the expiration date or discard date recorded on the label has passed. An error will be displayed if an expired strip is used.
- Do not touch a test strip with wet hands or wet gloves because moisture can damage the strip.
- Do not use a test strip that has been dropped or which may have been contaminated.
- Do not use a test strip if it appears damaged in any way.
- Do not apply control solution to a test strip until you are prompted to do so by the meter.
- Do not add more control solution to the test strip after the test has begun.
- Do not use any plasma or diluent after the expiration date on the vial or bottle (the expiration date assumes that the vial or bottle has not been opened).

Preparing to run a LQC test

Before running a LQC test you will need to prepare the control solution using the materials provided in your Siemens Xprecia™ Systems PT Controls kit. To do this:

Open a plasma and diluent bottle

Remove the screw caps from the plasma bottle and from one of the diluent bottles.

Add diluent to plasma

Transfer **the full contents** of the diluent bottle into the bottle of plasma using a transfer pipette. Take care to leave the diluent bottle as empty as possible. Save the transfer pipette to use during the LQC test.

Mix the solution

Screw the cap back onto the plasma bottle firmly and carefully mix the solution by swirling the vial in a circular motion until the solution is completely dissolved. To prevent foam, do not shake the vial.

Wait at least 5 minutes before using the mixed solution.

You will need to use the solution **within 25 minutes** (if you keep the lid firmly closed).

If necessary, you can store the mixed solution for 60 minutes in a refrigerator at 2–8°C (36–46°F).

Gently swirl the vial again prior to use.

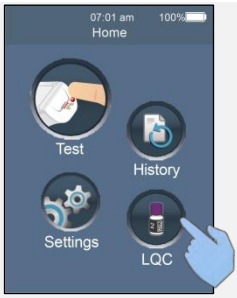
How to perform a LQC test

1. Touch and hold the power button until the meter turns on

When the meter boot process is complete, the home screen will appear.

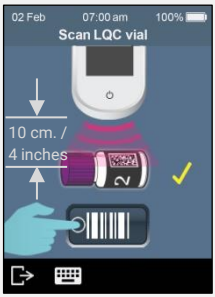
You may need to log in with your Operator ID and password (check with your administrator for details).

2. From the *Home* screen, tap on the *LQC* button



You can exit a test at any time by touching the button on the bottom left of the screen.

3. Scan LQC Vial



When prompted, touch the barcode button to scan the LQC plasma bottle using the meter's barcode scanner.

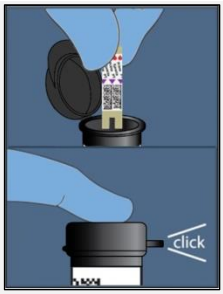
Only use a Xprecia Prime™ PT Liquid Quality Control Kit with a valid expiry date. See "Ordering details" on page 64.

4. Remove a test strip from its vial

Firmly close the vial immediately.

Ensure that your hands are clean and dry to avoid contaminating or damaging the test strips.

Once you have removed the test strip from a vial, you should conduct the test within 10 minutes.



To avoid a potentially inaccurate test result, you must use the strip within 10 minutes of removing it from the vial.

Do not use test strips that are past their expiration date (printed on the label of the vial).

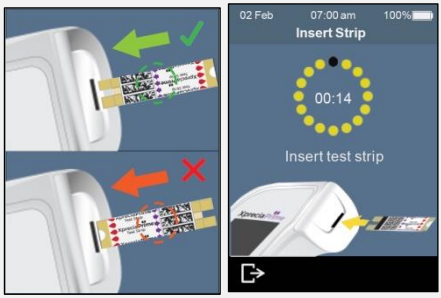
5. Scan strip barcode

Tap the scan barcode button to scan the strip barcode.
The meter will beep when the barcode is scanned.

Note: When using a test strip from a new vial, you will be prompted to scan the vial after inserting the strip.

6. Insert the strip

Following the on-screen instructions and with the strip's print-side facing upward, follow the direction of the arrows and gently but firmly insert the test strip into the test strip port.



7. Meter prepares

Wait for the meter to prepare.

When the meter is ready, the **Apply sample now** screen will appear.

DO NOT apply the sample until prompted.

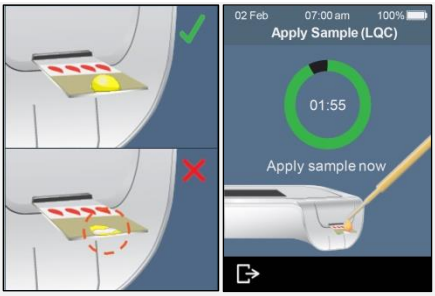
8. Obtain sample

Gently swirl the LQC solution you prepared earlier (see above), then remove the lid and use the pipette provided to extract a sample of the solution.

Remember to use the solution within 25 minutes of dilution (or 60 minutes if refrigerated).

9. Apply the sample

When the meter moves to the **Analysing** screen, transfer the hanging drop of LQC solution from the pipette to the target area (the white semi-circular notch to the base of the strip). The sample should fill the entire target area.



You must apply the LQC solution to the test strip within 25 minutes of preparing the solution (or 60 minutes if refrigerated).

After the sample is applied, do not bump the meter or strip until the final result is displayed.

Do not tilt the meter at extreme angles while running a test. If the meter is tilted too much in any direction before sample application, a warning screen will prompt you to hold it level. If the meter is tilted after sample application, an error will occur and the test will abort.

Ensure enough sample is applied to fill the small white semi-circle notch target area on the strip.

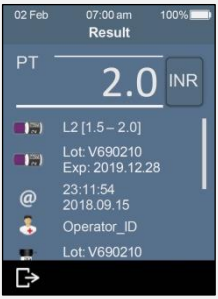
If you spill sample into the meter's strip port while applying the sample, clean the meter using the instructions on Page 31.

10. Analysis in progress

During analysis, a bar on the bottom of the screen will show progress and the status of the strip's internal quality control check. When the analysis is complete, a **Result** screen will appear.

Be careful not to bump the meter or strip while the sample is being analysed.

11. Result screen



If the LQC test is successful, the result will be displayed.

If the LQC test fails, an error screen will be displayed. If your *Supervisor* has turned on lock-outs, you will not be able to perform a patient test until a successful LQC test is performed. See Page 53 for troubleshooting.

To exit, touch .

If the LQC test fails:

A failed LQC test can indicate that the system is not performing as expected. It can also be caused by improperly stored controls or an incorrect test method. Refer to troubleshooting on page 53.

12. Eject strip and clean meter

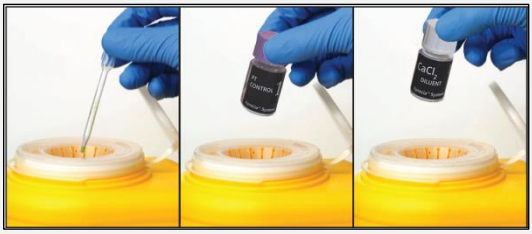
Hold the meter over a waste bin so that the strip points towards the opening of the waste bin, then gently press the eject button to discard the test strip. For disposal instructions, see Page 70.

You will be reminded to clean the meter and strip port.

You must clean and disinfect the meter and strip port after each LQC test (see Page 31 for instructions).

13. Safely dispose of LQC materials

Dispose of all used materials in a biohazard container or according to the practices of your facility.



LQC lockouts and reminders

The Xprecia Prime™ meter offers a LQC lockout feature. This will block patient testing functionality until a successful liquid quality control test is performed. See “LQC lockouts” on page 47 for further details.

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5. Cleaning the meter

Parts of the Xprecia Prime™ meter could become contaminated during testing resulting in meter errors or in the transmission of blood-borne pathogens to users. The meter must be cleaned and disinfected between every test.

The meter must be cleaned between each test, otherwise parts of the meter could become contaminated and capable of transmitting blood-borne pathogens to the user.

What you will need

- Disinfecting wipes as recommended by Universal Biosensors (see below).
- Lint-free tissues or cloths for drying the meter after cleaning.

Recommended disinfecting wipes

Universal Biosensors recommends CaviWipes™ disposable disinfecting wipes, (EPA Registration No: 46781-8). The cleaning procedure below is recommended when using these wipes.

CaviWipes™ disposable wipes contain the following active ingredients:

- isopropanol: 14.3% and
- Diisobutyl-phenoxy-ethoxyethyl dimethyl benzyl ammonium chloride: 0.23%

For information on purchasing CaviWipes™ disposable disinfecting wipes, contact your authorized distributor (see “Customer Support” on page 64).

Warnings

Follow the recommended disinfecting instructions and contact times listed in this User Guide.

Do not use any other disinfectant other than the wipes recommended above as it may damage the meter.

Squeeze excess liquid out of each wipe before use so that the wipe is damp but not dripping wet.

Do not let liquid accumulate around the strip port or the strip port cover. If fluid enters the strip port, your meter might be damaged.

Don't let liquid pool in the USB port as it may damage the meter.

Procedure

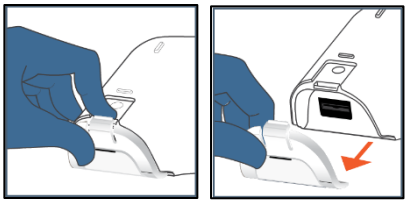
Cleaning and disinfecting your meter

Ensure the meter is powered off before cleaning and disinfecting.

A. Start by quickly wiping the whole meter with a CaviWipes™ disposable wipe (damp not dripping) to remove visible debris or liquids. Pay special attention to the barcode reader window on the bottom surface, ensuring that this is clear of debris.

   Discard the wipe and obtain a fresh wipe before proceeding.

B. Remove the strip port cover using your thumb and forefinger as shown, then set it aside.

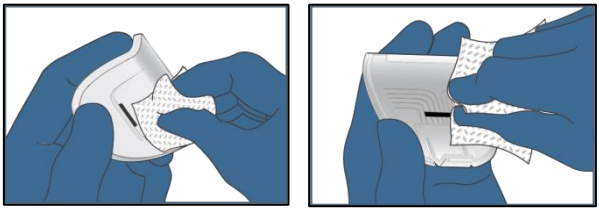


C. Holding the meter level, gently wipe the meter's front face with four vertical strokes (twice up and down) starting from the top, then wipe horizontally in the same cleaning motion (twice left and right).

Continue on the four edges and the back of the meter wiping two forward and backward strokes and two left and right strokes on each surface.

Always tilt the meter so that the strip port points slightly downward to avoid fluid entering the port.

D. Pick up the strip port cover and gently clean its front and back using your thumb and forefinger. Ensure the cap is visibly damp on all surfaces. You should pay particular attention to places where debris and fluids can gather (e.g. around the strip entry slot and in the channels inside the strip port cover).



E. **Wait at least two minutes** to allow the disinfecting properties of the CaviWipes™ to take effect.

F. **Dry** the meter thoroughly with lint free tissues or cloths.

   Thoroughly dry the entire surface of the meter being careful to not allow liquid to enter directly into the strip port connector by wiping in similar order and direction as shown in the cleaning sequence.

   Pay special attention to places where fluid can gather particularly around the strip port and the USB port area, drying any liquid that may have pooled.

G. Put the strip port cover back on the meter having checked that there is no excess visible liquid especially around the Strip Port. Ensure that you hear a click sound indicating it is securely re-attached to the body of the meter.

Signs of deterioration

Contact your authorized distributor (see “Customer Support” on page 64) if you notice any of the following signs of deterioration:

- Failure of the device to power on and off.
- Fault in button or touchscreen functionality.
- The device and button icon do not remain legible.
- The display does not remain clear (evidence of cloudiness or fogging) with cracking or other damage that obscures test results.
- Pixels on the display are damaged.
- The device casing displays any cracking, swelling, dissolving, softening or becoming brittle, discolouration.

  Decals and labels do not remain legible.

6. Historical results

The Xprecia Prime™ meter keeps a record of past tests. A summary of these tests (including tests that ended in an error) can be viewed on the meter. There is capacity for up to one thousand records. Once capacity has been reached, a new record will overwrite the oldest record. Past records on the meter cannot be edited or deleted.

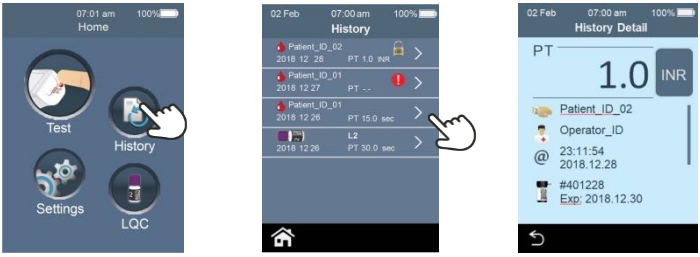
Test results on the meter can also be exported to an external device for further processing or storage. See Page 39 for more details.

Past results

Viewing past patient test results

To view the results of previous patient tests:

1. After logging in (if required) and reaching the **Home** screen, touch the *HISTORY* button.
2. In the result list, look for patient results identified with a blood drop icon. Past results are listed with the most recent result at the top. If the list extends beyond the screen, swipe up and down on the screen to scroll through the list.
3. Touch a result listing to see more details about that result.



Past results are retained, even when the meter is turned off.

Viewing past LQC test results

To view the results of previous LQC tests:

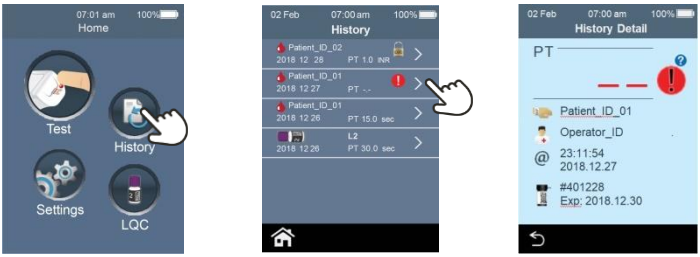
1. After logging in (if required) and reaching the **Home** screen, touch the *HISTORY* button.
2. In the result list, look for LQC results identified with a LQC bottle icon. Past results are listed with the most recent result at the top. If the list extends beyond the screen, swipe up and down on the screen to scroll through the list.
3. Touch a result listing to see more details about that result.

Viewing past tests that ended in an error

Tests that end in an error (including LQC failure) are also recorded in the result list. These tests are identified in the result list with the ❗ icon.

To view the results of tests that ended in an error:

1. After logging in (if required) and reaching the **Home** screen, touch the *HISTORY* button.
2. Past results are listed with the most recent result at the top. Tests that ended in an error are identified with the ❗ icon. If the list extends beyond the screen, swipe up and down on the screen to scroll through the list.
3. Touch a result listing to see more details about that result. If the details extend beyond the screen, swipe up and down to scroll. Touch the ? button for information on the error. See Chapter 8 (Troubleshooting) on page 54 for guidance on errors.



Exporting past results to an external device

Test results on the meter can be exported to an external device in text (comma-delimited) format.

What you'll need

1. Your Xprecia Prime™ meter connected to a wireless network (see Page 43 for instructions) ***or*** by USB to a PC (using the USB cable that came with your meter)
2. An external device with a web browser that is connected to the same wireless network as the meter (e.g. laptop, tablet, smartphone) ***or*** a PC that is connected to the meter by USB

NOTE: The meter does not support Internet Explorer

Setting up

If you are connecting by WiFi, find your Xprecia Prime™ meter's IP address by doing the following:

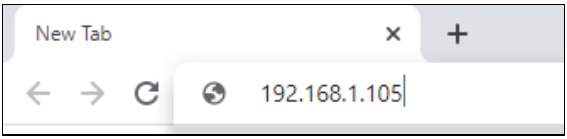
i) on your meter, tap *SETTINGS* from the **Home** screen,

ii) tap *About* on the **Settings** screen

iii) tap *Network Information* on the **About** screen and note the IP address of your meter

Connecting to the meter from another device

1. If connecting by Wireless: on the external device, open a browser and navigate to your Xprecia Prime™ meter's IP address (see "Setting up" above)

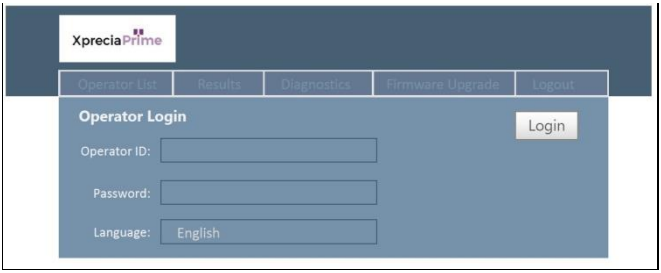


2. If connecting by USB: use the IP address 172.16.71.1

NOTE: Your browser may give you a security warning about the website not being secure (because the meter uses the http rather than the https protocol). This is not of concern because the connection between the meter and your device is happening within your wireless network or over USB.

Exporting the results

1. If your Supervisor has enabled operator login, the **operator login screen** will appear. Enter your Operator ID & password and then click the Login button.



2. Select the Results tab, then click on the *"Export"* button and specify a location and filename.

Your results will be exported as a ZIP file. Inside the ZIP file will be a CSV (comma-delimited text) file (called "results_all.csv") which contains all of the historical results on the meter. This file can be opened in any spreadsheet program for easy filtering, sorting and analysing. The first row contains headings for each column.

3. Click logout when you are finished to go back to the login page.

7. Settings

General settings

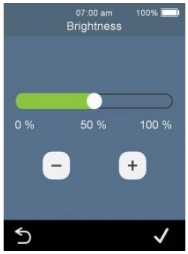
This section describes settings available to all operators. For advanced settings available only to Supervisor operators, see Page 45.

To adjust meter settings, log in (if applicable) and then, on the **Home** screen, tap on *Settings* and then *General*.

Brightness

The brightness of the screen can be modified. The default value is 100%. Tap + or − to increase or decrease the screen brightness.

Press ✓ to accept the new brightness level.



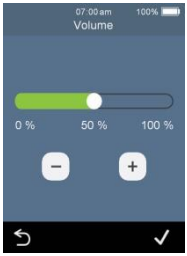
Sound volume

The meter emits audible alerts at various times, including when:

- a key event occurs during a test
- an error or warning occurs

Tap + or − to increase or decrease the sound volume of audible alerts.

Press ✓ to accept the new volume level.

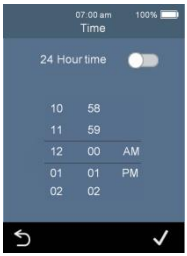


Time and time format

The time format can be set to 12 or 24 hour time.

To set the time, swipe up or down on hour, minutes and AM/PM.

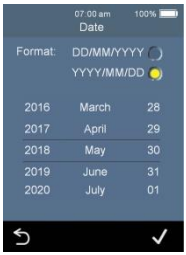
Touch ✓ to accept the time details.



Date and date format

The date format can be set to YYYY MM DD or DD MM YYYY.

To set the date, swipe up or down on year, month and day, then touch ✓ to accept the date details.



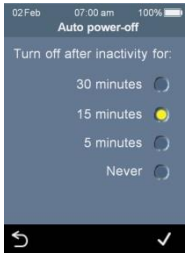
Language

To set the language, select the desired language then press ✓. You may need to swipe to scroll to your desired language.

Auto power-off

The meter can be configured to automatically turn off after a period of inactivity. This feature can be disabled by selecting “Never”.

To configure auto power-off, select the desired value then press ✓.



Connectivity (wireless)

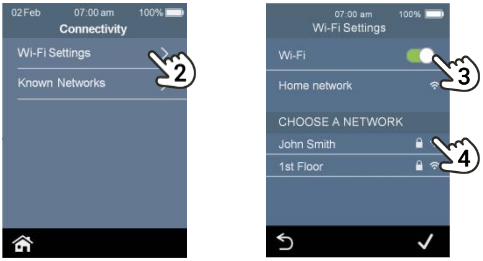
Connecting to a wireless network

A wireless (WiFi) network connection may be required for the meter to download results to an external device.

To connect to a wireless network:

1. From the **Home** screen, touch the *SETTINGS* button, then touch *Connectivity* to navigate to the **Connectivity** screen
2. Touch *Wi-Fi Settings* to get to the **WiFi Settings** screen
3. Turn on Wi-Fi
4. Select a network from the *CHOOSE A NETWORK* panel and enter the WiFi password (if prompted)

5. After the connection is established, press ✓ to confirm your selection



NOTE: the meter will not connect to unsecured WiFi networks (for security reasons)

Forgetting a wireless network

To forget a wireless network (so that the meter no longer connects to that network), select *Known Wi-Fi Networks* on the **Connectivity** settings screen, then select a network name and touch the bin button.

About

Device information

Information about the meter such as serial number and software version can be found by selecting *SETTINGS* on the **Home** screen, then *About*, then *Device Information*.

Network information

Information about the wireless network connection such as IP address and MAC address can be found by selecting *SETTINGS* on the **Home** screen, then *About*, then *Network Information*.

Advanced Settings (for Supervisors)

The settings described in this section are only available:

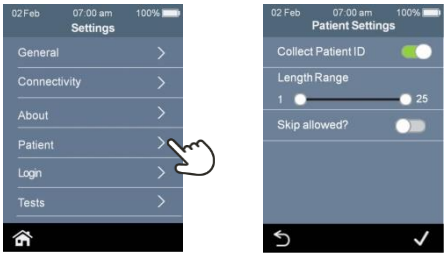
- If the logged in operator is defined as a *Supervisor* in the Operator List
- If log in is not enabled, in which case all functions are available to all users

After selecting *Settings* on the **Home** screen, the Supervisor will find three extra menu items on the *Settings* menu: Patient, Login and Tests.

Patient settings

The patient settings provide the *Supervisor* with option of turning on or off the collection of Patient ID during the test.

The *Supervisor* can also set length limits for the Patient ID and decide whether it will be possible to skip the patient ID during the test workflow (in case an emergency patient needs urgent testing but doesn't yet have a patient ID).



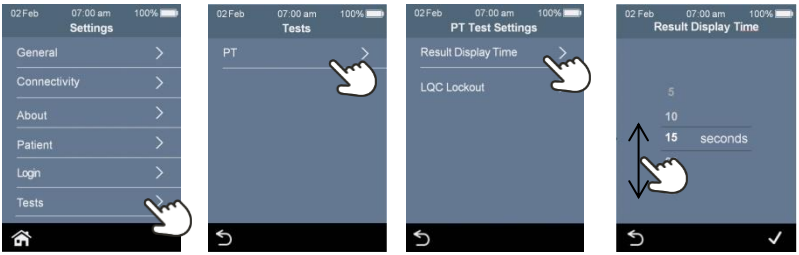
Login settings

The login settings provide the *Supervisor* with option of turning on or off login. With log in turned off, any user will be able to perform all functions (including access to the advanced settings in this section).

Note that in order to turn on log in there must be an Operator list containing at least one *Supervisor* operator (see Page 50).

Test settings – Display Time

By selecting *Tests*, then *PT* and then *Result Display Time*, the *Supervisor* can change how long the test result is shown before the user is prompted to eject the strip and clean the meter. Swipe up and down on the **Result Display Time** screen to increase or decrease the display time.



Test settings – LQC Lockouts

About LQC Lockouts

The *Supervisor* has the option of turning on the LQC lockout function. This function prevents patient tests from being run if:

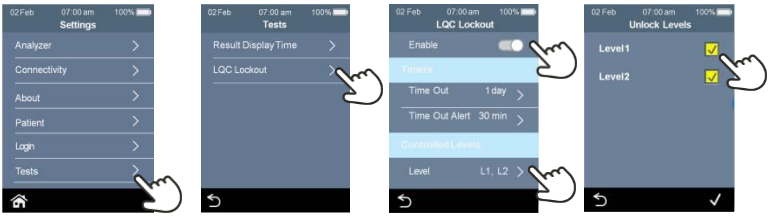
- the most recently performed LQC test failed or
- a LQC reminder expires.

When a LQC lockout is active, the *Test* Button on the **Home** screen will glow red. If any bypasses are available (see Page 50), the number of bypasses will be shown.

Enabling LQC Levels

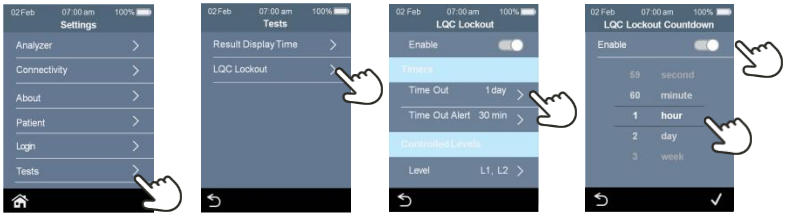
The Siemens Xprecia™ Systems PT Controls kit contains two controls focused on different parts of the diagnostic range (low and high). The Supervisor can enable or disable LQC lockouts altogether.

The Supervisor can also turn LQC lockouts on for one or both of the LQC levels.



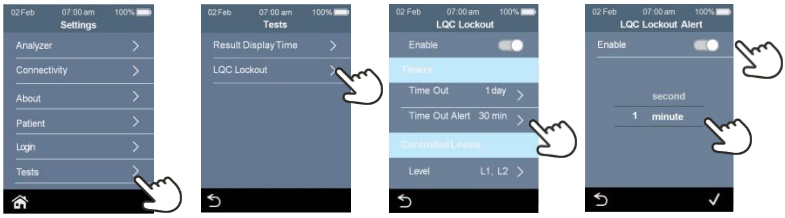
Enabling LQC Reminder Lockouts

Once LQC Lockouts are enabled, the Supervisor can set the frequency of LQC reminders. When a LQC reminder expires, the meter will lock out until a successful LQC test is performed for each selected level.



Enabling LQC Lockout Alerts

The supervisor can set up an alert to warn the user that a LQC reminder is about to expire. On the **LQC Lockout Alert** screen, the Supervisor can decide how long before the lockout an alert will appear. For example, if the Supervisor selects 10 minutes, the alert will appear 10 minutes before the LQC reminder is due to occur.



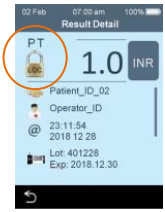
When a LQC alert is due, the *Test* button on the **Home** screen will glow yellow.

Enabling LQC Bypass (STAT)

Sometimes a LQC reminder lockout will occur when STAT (Short Turn Around Time) patient test must be performed. To address this need, the Supervisor can allow defined operators to bypass a LQC reminder lockout. Each LQC lockout can only be bypassed up to five times. See Page 50 for more details.

NOTE: bypassing a LQC lockout is only possible if the lockout is due to a reminder expiring. It is not possible to bypass a lockout due to a LQC test failing.

When LQC is bypassed to perform a patient test, the test's historical record will be marked with a special LQC Bypass padlock icon.



Setting up an Operator list

About the Operator list

To enable log in functionality, the *Supervisor* must first set up an Operator list. The Operator list contains a list of operators with the following fields defined for each:

Field	Description
Operator ID	A free-text ID specific to this operator. See warning below.
Password	A free-text password (which can also be left blank). See warning below.
Name	A free-text field containing the Operators name.
Role	Supervisor or Restricted *Restricted operators have access to a limited range of settings (see Page 41)*
STAT?	Yes or No *This field defines whether this operator is allowed to bypass LQC reminder lockouts (see Page 51)*

For Operator ID and Password, be careful to use only upper and lower case English language characters plus symbols limited to the keyboard on the meter screen or to the barcode symbology you plan to use.

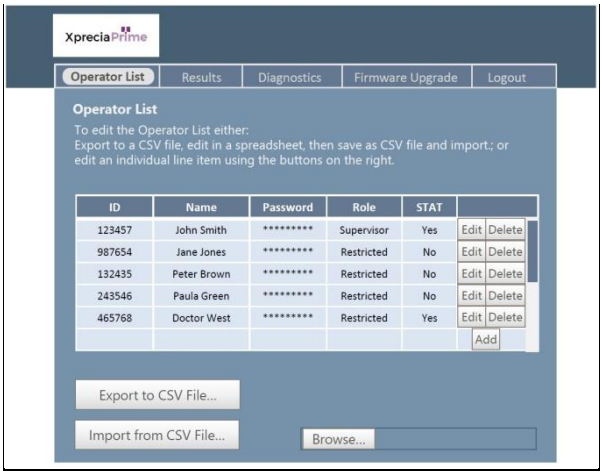
How to set up the Operator list

To set up the Operator list, follow these steps:

1. Log into the web server using the instructions on Page 38.

NOTE: The meter does not support Internet Explorer

2. Navigate to the Operator list tab.



3. Right click on a row to add or edit an operator's details.

4. If you need to set up a large number of operators, you can export the operator list to a CSV file using the *Export to CSV File…* button. You can then use the spreadsheet program of your choice to update the list and then import the updated list using the *Import from CSV File…* button. Select the import/export file using the *Browse…* button.

NOTE: When exporting the operator list to CSV file, the passwords will not be sent from the meter. However, you can import passwords in plain text format.

8. Troubleshooting

Service, repairs and modifications must be done by parties explicitly authorized by Universal Biosensors. Service, repairs and modifications done by unauthorized parties will render the warranty void.

General troubleshooting

Situation	Solution
The test generated an unexpected result	The test should be repeated with a fresh sample. If a similar result is obtained, you may choose to confirm the result by other means. Inconsistent results could indicate poor test strip storage, poor sample collection or meter malfunction.
The touch screen and/or power button are unresponsive	Disconnect external power from the meter and then touch the power button for an extended period. Eventually (after 15 seconds or so), the screen will go black and the meter will turn off. If the problem persists, contact Customer Support.
Login option is not selectable	You must set up an Operator list before log in can be turned on. See Page 50 for instructions.
Liquid Quality Control (LQC) failed	See the Liquid Quality Control troubleshooting section on Page 53.

Liquid Quality Control (LQC) troubleshooting

In the event that a LQC test fails, consider performing the following actions in turn until a passing result is achieved:

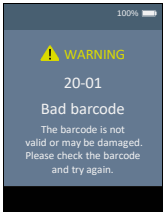
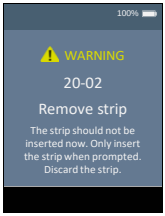
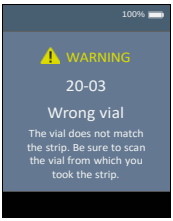
Step	Description
1	Repeat the test using a new strip from the **same vial** with a freshly prepared control solution.
2	Repeat the test using a new strip from a **different vial** (from the same lot) with a freshly prepared control solution. *If you don't have a different vial from the same lot, move to the next step.*
3	Repeat the test using a new strip from a **different lot** with a freshly prepared control solution.
4	Repeat the test using a new LQC kit from the **same lot**. *If you don't have a new LQC kit from the same lot, move to the next step.*
5	Repeat the test using a **different lot** of LQC.
6	If the above tests fail or you do not have the materials required, contact your authorized distributor (see "Customer Support" on Page 64).

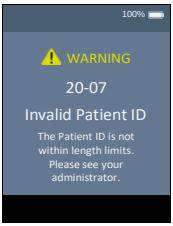
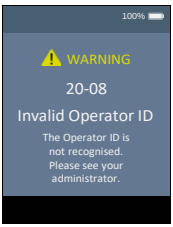
Warning and error messages

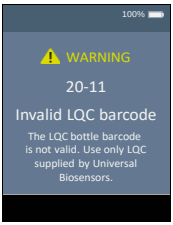
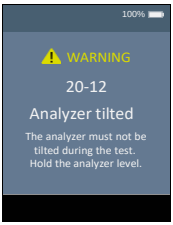
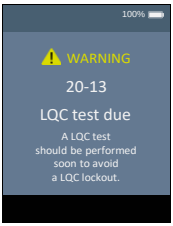
Warnings and errors are listed below in number order. To find the warning or error number, check the area under the WARNING or ERROR text in the top half of the screen.

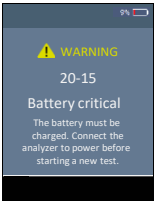
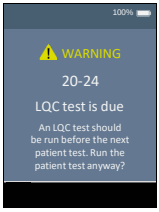
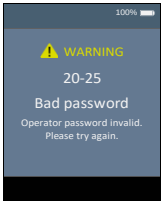
Whether a warning or error appears depends on the situation:

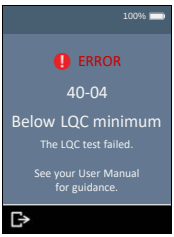
- **Warnings** inform you of something that needs to be corrected before a process can continue
- **Errors** inform you of an issue that is not recoverable (e.g. an issue that requires the test to be restarted with a new strip)

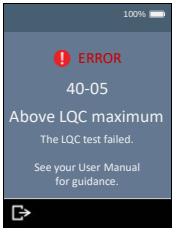
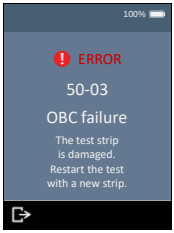
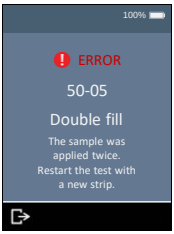
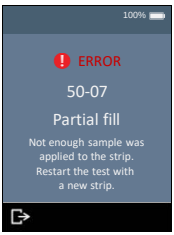
Warning/Error Screen	Cause	Solution
	A barcode was scanned but could not be read. This could either be because the barcode is damaged or not in a recognised format.	Check that the barcode format is correct and that the barcode isn't damaged. Try wiping the barcode clean and trying again.
	The test strip was inserted at an inappropriate time. The test strip should only be inserted after the meter displays the **Insert strip** screen.	Discard the strip and start a new test. The strip must not be reused after it has been inserted into the strip port.
	The barcode on the test strip does not match the barcode on the vial. Test strips are coded to match the vial from which they came from.	When prompted to scan a vial barcode, always be sure to scan the vial from which the strip was taken.

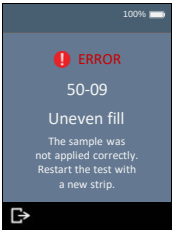
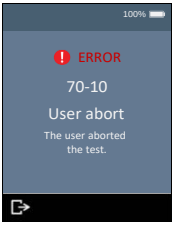
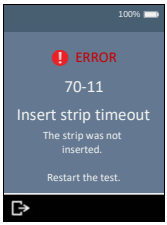
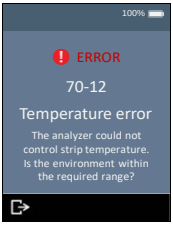
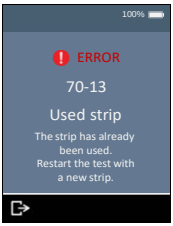
Warning/Error Screen	Cause	Solution
	The meter tried to scan a strip barcode, but the barcode that was scanned was not valid.	When prompted to scan a strip, always scan an Xprecia Prime PT strip. You must only use Xprecia Prime PT strips. All other strips (including Siemens PT/INR Strips for Xprecia Systems) will not work.
	The strip port's protective end cap (see item 4 on page 4) is not correctly fitted.	Fit the protective cap to the strip port. Keep the strip port's protective end cap firmly fitted at all times (except during cleaning - see page 31).
	The LQC barcode (or the strip barcode) are not valid.	You must only use Siemens Xprecia Systems PT Controls and Xprecia Prime PT strips. All other LQC kits and all other strips (including Siemens PT/INR Strips for Xprecia Systems) will not work.
	The administrator has set length limits for the Patient ID. The scanned or entered Patient ID is too short or too long.	Check that you have scanned or entered a valid Patient ID. See your administrator if the problem persists.
	You have tried to log in with an Operator ID that is not recognised.	Check that you have scanned or entered a valid Operator ID. See your administrator if the problem persists.

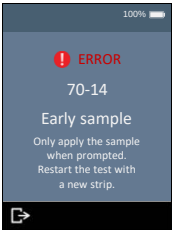
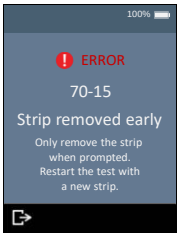
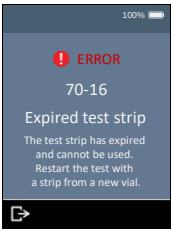
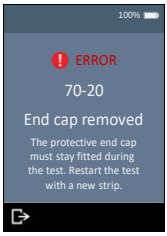
Warning/Error Screen	Cause	Solution
	The meter tried to scan a strip barcode, but the barcode that was scanned was not valid.	When prompted to scan a strip, always scan an Xprecia Prime PT strip. You must only use Xprecia Prime PT strips. All other strips (including Siemens PT/INR Strips for Xprecia Systems) will not work.
	The meter tried to scan a strip vial barcode, but the barcode that was scanned was not valid.	When prompted to scan a strip vial, always scan an Xprecia Prime PT strip vial. You must only use Xprecia Prime PT strips. All other strips (including Siemens PT/INR Strips for Xprecia Systems) will not work.
	The meter tried to scan a LQC bottle barcode, but the barcode that was scanned was not valid.	When prompted to scan a strip vial, always scan a Siemens Xprecia Systems PT Controls bottle. You must only use Siemens Xprecia Systems PT Controls. All other LQC kits will not work.
	The meter was tilted too much or was bumped.	Hold the meter level to continue the test. Do not bump or tilt the meter when the sample is being applied.
	Your meter is set to lockout if a LQC test is not performed periodically. In the near future, a lockout will occur unless the required LQC test(s) is performed successfully.	You can still run patient tests at this time, but a LQC test should be performed soon. See your administrator for details.

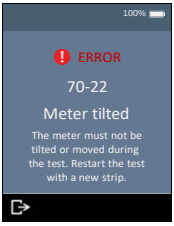
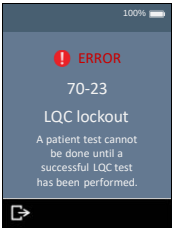
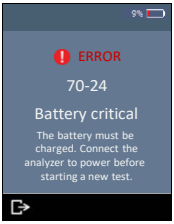
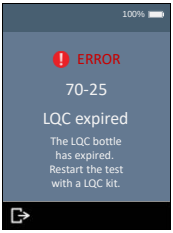
Warning/Error Screen	Cause	Solution
 (This row also applies to 20-16 and 20-20)	The battery level has become critical (less than 20%) while a test is in progress. If a test has already been started prior to this warning message appearing, the test can be completed.	Before a new test can be started you must connect the meter to an external power source, which will also charge the battery.
	When a software update is being performed the meter must be connected to external power. This is to ensure that the update will not be interrupted.	Connect the meter to external power and start the software update again.
	Something stopped the software update from being performed.	Start the software update again. If it continues to fail, contact Customer Support (see page 64). In the meantime, you can continue to use your meter using the existing software version.
	Your meter is locked out because a LQC test was not performed at the time set by your administrator.	If the patient test is urgent, you can choose to bypass the LQC lockout. See your administrator for details.
	You have tried to log in with a password that is not valid for the given Operator ID.	Check that you have scanned or entered the right password. See your administrator if the problem persists.
30-01 (partial fill)	See error 50-07	See error 50-07

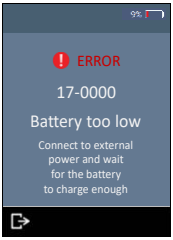
Warning/Error Screen	Cause	Solution
30-02 (Bad fill error)	See error 50-09	See error 50-09
 (This row also applies to 30-04)	An analysis error occurred and the test result could not be calculated. Possible causes include too much meter movement, an unsupported sample type, a system fault, or test strips that have not been maintained properly.	Discard the test strip and start the test again. Apply the sample as instructed on page 19. If the error persists, contact Customer Support (see page 64).
	The measured result was below the measuring range of Xprecia Prime (less than 0.8 INR).	Repeat the test with a fresh fingerstick sample. Such results should be confirmed using an alternative test method (e.g. laboratory PT/INR).
	The measured result was above the measuring range of Xprecia Prime (greater than 8.0 INR).	Repeat the test with a fresh fingerstick sample. Such results should be confirmed using an alternative test method (e.g. laboratory PT/INR).
40-03 (double fill)	See error 50-05	See error 50-05
	The LQC test failed because the result was below the expected range. There are a number of possible causes for this. See Page 53 for guidance.	Perform the troubleshooting steps on Page 53.

Warning/Error Screen	Cause	Solution
	The LQC test failed because the result was above the expected range. There are a number of possible causes for this. See Page 53 for guidance.	Perform the troubleshooting steps on Page 53.
50-02 (Test timeout)	See error 30-03	See error 30-03
	The test strip's on-board control (OBC) has detected that the strip is damaged and cannot be used. Possible causes include test strips that are damaged or test strips that have not been maintained properly.	Discard the strip and start a test with a new strip from the same vial (if available). If the error persists and you are sure the vial has been kept closed and at the correct storage temperature (see Page 68), contact Customer Support (see page 64).
50-04 (partial fill)	See error 50-07	See error 50-07
	The sample was applied to the strip twice and the test could not be completed.	You must apply the sample only once. Never apply additional sample to the test strip after the test has begun. Discard the strip and start the test again. Apply the sample as instructed on page 19.
50-06 (Fill time problem)	See error 50-09	See error 50-09
	Insufficient sample was applied to the strip and the test could not be completed.	You must **not** apply additional sample to the test strip after the test has begun. Discard the strip and start the test again. Apply the sample as instructed on page 19.
50-08 (Pre double fill)	See error 50-05	See error 50-05

Warning/Error Screen	Cause	Solution
	The sample could not reach the strip's reaction chamber correctly. Possible causes include too much meter movement, an unsupported sample type or a system fault.	Discard the test strip and start the test again. Apply the sample as instructed on page 19. If the error persists, contact Customer Support (see page 64).
	The user aborted a test after the strip was inserted.	Discard the strip and start a new test. The strip must not be reused after it has been inserted into the strip port.
	The strip was not inserted within the time limit on the **Insert strip** screen.	Start the test again and insert the strip when prompted by the meter.
	The meter could not adequately control the strip's temperature.	Make sure the ambient temperature is between 15 °C and 32 °C (59 °F to 89 °F) and restart the test with a new strip. You may need to allow time for the meter's temperature to stabilize. If the problem persists, contact Customer Support (see page 64).
	The inserted strip has already been used for a test (or the strip might have been handled with wet hands).	Discard the strip before starting a new test. If the error recurs, try a new vial of strips.

Warning/Error Screen	Cause	Solution
	The sample was applied too early.	Discard the strip before starting a new test. Apply the sample only when prompted by the meter.
	The test strip was removed before the test was finished.	Discard the strip before starting a new test. Ensure the strip is pushed fully into the strip port, and don't remove the strip until instructed.
	The test strip is past its expiry date.	Start the test again with a new strip from a vial that has not expired.
Internal Error Includes Errors: 70-18, 70-19, 70-26, 80-00, 16-XXXX, 18-XXXX, 19-XXXX	There was an internal error and the test result could not be obtained.	Turn the meter off and on, then repeat the test. If the same error occurs, contact Customer Support (see page 64).
	During a test, the strip port's protective end cap (see item 4 on page 9) was removed.	Fit the protective cap to the strip port and restart the test with a new test strip. Keep the strip port's protective end cap firmly fitted at all times (except during cleaning - see page 31).

Warning/Error Screen	Cause	Solution
	The sample was not applied at the time requested by the meter.	Discard the strip before starting a new test. Apply the sample when prompted by the meter.
	During sample application, the meter was tilted too much or was bumped.	Discard the strip before starting a new test. Do not bump or tilt the meter after the sample is applied.
	Your meter is set to lockout when either a LQC test fails or a LQC test is not performed periodically. A patient test cannot be performed until the required LQC test(s) is performed successfully.	Run a passing LQC test (or LQC tests if your meter requires Level 1 and Level 2 LQC to be performed). See your administrator for details.
	The battery is too low to start a new test.	Before a new test can be started you must connect the meter to an external power source, which will also charge the battery.
	The LQC kit is past its expiry date.	Start the test again with a new LQC kit that has not expired.

Warning/Error Screen	Cause	Solution
	The battery is too low for the meter to operate, most likely because the meter has not been used for a very long time.	Before the meter can be used, you must connect the meter to an external power source to charge the battery enough for it to be used safely. This may take 30 minutes or more.

9. Customer support

If you have unanswered questions, or the Xprecia Prime™ system is still not working as expected after you have tried the various troubleshooting options listed in chapter 8, contact your authorized distributor (see www.universalbiosensors.com).

Ordering details

If you need replacement parts, contact your authorised distributor (see www.universalbiosensors.com).

Software updates

There may be occasional software updates for your meter made available by Universal Biosensors. Your distributor will contact you with instructions. You should update your meter to the latest software as soon as possible.

The software update should not change any settings or historical results on your meter. However, you should regularly export historical results to an external device for safekeeping. See page 38 for instructions on exporting historical results.

10. Appendices

Abbreviations and terms

The following abbreviations and terms are used throughout this guide:

Abbreviation or term	Meaning
AC	Alternating Current
EMC	Electromagnetic compatibility
EU	European Union
FDA	Food and Drug Administration (USA)
LQC	(External) Liquid Quality Control
ID	Identifier
INR	International Normalised Ratio
mg/L	Milligrams per litre
PPM	Parts per million
PT	Prothrombin time
STAT	Short Turn Around Time
USA	United States of America
USB	Universal Serial Bus

Prothrombin time

Xprecia Prime™ also displays Prothrombin time (PT) results in seconds. The reported time is derived from the INR result and the equation below. The calculation is performed with an ISI of 1.0 and a typical Mean Normal Plasma Prothrombin Time of 12.0 seconds.

$$\text{INR} = \left(\frac{[\text{Patient Prothrombin Time (sec)}]}{[\text{Mean Normal Prothrombin Time (sec)}]}\right)^{\text{ISI}}$$

Labels and symbols

Label or symbol	Explanation
	Manufacturer
	Manufacturer's declaration that the product complies with applicable European Union directives
	Read the User Manual before use
	Consult the instructions for use for important cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the device itself
	Fragile
	Handle with care
	Single use only
SN	Serial number
LOT	Product batch code
EXP	Expiry date
	Keep dry
2°C 30°C	This symbol indicates that the product has a storage temperature limitation and must be stored at 2 to 30 °C (35.6 to 86 °F).
	WEEE: The meter complies with EU 2012/19/EU. Do not dispose of the meter with normal rubbish. Refer to local regulations for disposal.
FCC ID	FCC registration identifier
	Keep out of direct sunlight

Label or symbol	Explanation
	Recycle
	This way up
n	Contains sufficient strips for <n> tests
	The Regulatory Compliance Mark (for Australia and New Zealand)
IVD	*In vitro* diagnostic device
	Biohazard – take appropriate precautions
32°C 15°C	This symbol indicates that the product has an operational temperature limitation and should only be operated in environment temperatures between 15 °C to 32 °C (59 °F to 89 °F)
80% 0%	This symbol indicates that the product has an operational humidity limitation and should only be operated in environments where relative humidity is less than 80% (without condensation).
≤2000m	This symbol indicates that the product has an operational altitude limitation and should only be used when product altitude is less than 2000 m (6561ft) (assessed for electrical safety only).
	Quick start guide
	Xprecia Prime™ meter
	Power Supply
	User Guide
	Spare Cap (Strip port cover)
40°C -20°C	This symbol indicates that the product has a storage temperature limitation and must be stored at -20 °C to 40 °C (-4 °F to 104 °F)
75% 0%	This symbol indicates that the product has a storage relative humidity limitation and must be stored at < 75% (without condensation).

Technical specifications

General	
Input	5V ⎓ 0.9A
Rating	3.7V ⎓ 0.5A MAX
Capacity	1.85Ah (LI-ION)
Water Ingress Rating	IPX0
Pollution Degree Rating	Pollution Degree II
Overvoltage Category	Category I
Meter Operating conditions	
Temperature	15 °C to 32 °C (59 °F to 89 °F)
Relative humidity	< 80% (without condensation)
Altitude	Electrical safety tested up to 2000m
Transport and Storage conditions (in packaging)	
Temperature	–20 °C to 40 °C (–4 °F to 104 °F)
Relative humidity	< 75% (without condensation)
Altitude	Electrical safety tested up to 2000m
Test Strips Storage conditions	
Temperature	2 °C to 30 °C (35.6 °F to 86 °F)
Relative humidity	< 75% (without condensation)
LQC kit Storage conditions	
Temperature	2 °C to 8 °C (35.6 °F to 46.4 °F)
Sample	
Sample Type	Capillary blood from a fingerstick
Sample Volume	At least 8 microlitres
Haematocrit range	25 to 55% inclusive

Power Supply	
Model	GTM46161-165.0-USB
Input	100 – 240 V~, 50-60 Hz, 0.45 A Mains Supply Voltage Fluctuation +/-10%
Rating	5V ⎓ 3.2A
Operating Altitude	up to 5000 m
Operating Humidity	0 to 93 %
Operating Air Pressure	54 to 1060 hPa
Operating Temperature	0 ºC to 40 ºC (32 °F to 104 °F)
Features	
Measurement range	0.8 to 8.0 INR
Interface	Wireless (2.4GHz)
Automatic power off	Configurable: disabled, 5 mins, 15 mins, 30 mins
Dimensions	147 × 84 × 32 mm (5.79 × 3.31 × 1.26 in)
Weight	210 g (7.41 oz)
Design lifetime	3 years or 8,760 tests
Connectivity	
USB	Micro USB
Wi-Fi	802.11b/g/n Note: The Wi-Fi network must be secure.
PC Requirements	
Hardware	Wi-Fi adapter (for Wi-Fi Connection) Note: Device must be connected to the same wireless network as the meter. Spare USB Port (for USB Connection)
Software	Web browser Note: Internet Explorer is not supported

Legal notices

Software licences

The Xprecia Prime™ meter uses proprietary, third party and open source software. Details of licenses are available at:
https://www.universalbiosensors.com/Modified-Third-Party-Software/
Use of the Xprecia Prime™ meter is subject to the terms of those licenses.

Disposing of the Xprecia Prime™ meter

The meter must not be disposed of with general rubbish. Contact your local distributor and/or local authorities for instructions on the disposal of the meter. Always comply with local procedures and guidelines for the disposal of electrical, electronic and hazardous waste.

Disposing of Xprecia Prime™ test strips and liquid quality controls

Used Xprecia Prime™ test strips and all components of the Siemens Xprecia™ Systems PT Controls kit must be disposed of as biohazardous waste.

In most regions, **unused** Xprecia Prime™ test strips (and the vial they came in) can be disposed of with your general rubbish. You should ensure that the test strips are bagged separately.

Check with your local authorities for any special instructions that might apply in your jurisdiction.

European Union Radio Equipment Declaration

Hereby, Universal Biosensors, declares that this radio equipment (of type Coagulation Analyzer) is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.universalbiosensors.com

Radio emissions and electromagnetic compatibility

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
CAUTION: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.
This equipment has been tested and meets applicable limits for radio frequency (RF) exposure as a portable device as per 47 CFR § 2.1093.

Canadian Compliance Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada license-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
1) L'appareil ne doit pas produire de brouillage;
2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment complies with RSS-102 radiation exposure limits. This equipment was tested and found compliant for safe use as a handheld product.
REMARQUE: Cet équipement est conforme aux limites d'exposition aux radiations RSS-102 établies pour un environnement non contrôlé. Cet équipement a été testé et jugé conforme pour une utilisation en tant que produit portable.

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