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Coag-Sense is a trademark of CoaguSense, Inc.
Contacting CoaguSense

If you have any questions or concerns with the Coag-Sense™ Prothrombin Time (PT)/INR Monitoring System, please contact CoaguSense Technical Support at:

CoaguSense, Inc.
48377 Fremont Blvd., ste. 113
Fremont, CA 94538
Toll Free: 1-866-903-0890

E-Mail: techsupport@coagusense.com

Note: The Coag-Sense Prothrombin Time (PT)/INR Monitoring System meter is packaged in a special box. Do not discard this box. Re-use the package to transport the meter or, if directed by Customer Service, to return it for testing.

The Coag-Sense PT/INR System may be used for multiple-patient testing in a professional healthcare setting.
The Coag-Sense™ Prothrombin Time (PT)/INR Monitoring System

Intended Use

The Coag-Sense Prothrombin Time (PT)/INR Monitoring System is an in vitro diagnostic device that provides quantitative prothrombin time (PT) results, expressed in seconds and INR units. It uses fresh capillary whole blood. It is intended for use by health care professionals at the point of care to monitor patients who are on warfarin-type (coumarin) anticoagulation therapy. The device is not intended to be used for screening purposes.

The Coag-Sense PT/INR System may be used for multiple-patient testing in a professional healthcare setting.

Anticoagulation Medication

Oral anticoagulation medications, also known as blood thinners, are typically prescribed to patients to avoid unwanted clots. The patient’s blood clotting time must be monitored to ensure that their dosage is correct.

Oral anti-coagulation medication is prescribed to patients with acute and chronic conditions including, but not limited to: congestive heart failure, atrial fibrillation, prosthetic heart valve, myocardial infarction, joint replacement, deep vein thrombosis, pulmonary embolism, thrombotic stroke, coronary artery disease, venous thromboembolism and cancer.

Blood-clotting Time

The rate at which blood clots is measured in units is called International Normalized Ratio (INR). It is very important for patients to stay within their individual target INR range. If the INR
is too low, the risk of blood clots increases. If the INR is too high, the risk of hemorrhaging increases. The patient’s physician will determine the most appropriate INR range for the patient, depending upon the patient’s indication and how they respond to the oral anticoagulant.
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1. About This Manual

The purpose of the Coag-Sense Prothrombin Time (PT)/INR Monitoring System User Manual is to help you understand your Coag-Sense PT/INR system, its parts, and its intended function. It provides you with the information you need to perform a PT test with the Coag-Sense PT/INR system.

You must complete proper training on the Coag-Sense PT/INR system before you begin using the system. It is also important to read this entire User Manual and the inserts that come with the disposable Coag-Sense test strips. This User Manual has different formats and symbols to distinguish warnings, notes, and meter buttons.

⚠️ **WARNING:** This indicates a warning or precaution. Please read and understand all warnings and precautions. They tell you about potential safety hazards and situations that may cause injury. If you have any questions, please contact CoaguSense Tech Support at **1-866-903-0890** (USA).

**Note**: Notes provide additional information that is useful or important. All notes are displayed in italics. Words in **BOLD ALL-CAPITALS** refer to buttons on the Coag-Sense meter.
2. System Description

The Coag-Sense Prothrombin Time (PT)/INR System is used for quantitative measurement of Prothrombin Time (PT) in fresh, capillary whole blood. The Coag-Sense PT/INR system is intended for use outside the body (in vitro diagnostic use) to test patients taking warfarin-type oral anticoagulant (blood thinning) therapy who need to monitor clotting time.

The meter performs a self-test when it is first turned on. If there are any problems with the meter, an error message is shown on the display. Refer to the “Troubleshooting” section of this manual or contact Technical Support.

A test strip is inserted and heated in the meter prior to sample application. The strip contains a tiny wheel with spokes that pull the sample into the reaction well. The spokes quickly and completely mix the sample with the clot initiating component of the test strip.

The PT time is determined from when (a) the sample is drawn into the reaction well of the test strip and detected by a beam of light until (b) a clot forms and interrupts the beam of light. The PT result is converted to an INR (International Normalized Ratio) using the calibration data stored in the meter. INR is a mathematical correction of the PT result that adjusts for sensitivity differences among different PT systems.

The meter continues to check every feature of its operation through a series of self-checks.
Your Coag-Sense PT/INR Professional System (Catalog number 03P60-01) comes supplied with:

- Coag-Sense PT/INR Meter
- Coag-Sense PT/INR System Professional User’s Manual
- Coag-Sense PT/INR System Professional Quick Reference Guide
- Four AA 1.5 V Alkaline Batteries (not installed)
- AC Power Supply
- Sample package of Single-use, Auto Sterile Lancets
- 2 MiniPipettes
- 1 Rack of Pipette Tips (96 tips) for use with MiniPipette

You will also need:

- Coag-Sense Professional Test Strip Kit-50 (Catalog number 03P56-50), which includes:
  - 50 Patient Test Strips
  - 1 Control Strip Activation Solution
  - 54 Sample Transfer Tubes
  - 2 Low Control Strips
  - 2 High Control Strips
- Isopropyl alcohol or alcohol wipes
- Gauze
- Single-use Auto Lancets, 21 gauge - box of 100
- Puncture-resistant bio-hazard (SHARPS) container
The Coag-Sense Meter: Top View

- Meter Display
- Power On/Off Button
- Menu Buttons
- Strip Holder

The Coag-Sense Meter: Bottom View

- Battery Door
- Battery Door Release
The Coag-Sense Meter: Rear View

- Data Port
- AC Adapter Jack

The Coag-Sense Test Strip

- Mixing Wheel and Reaction Well
- Sample Application Area
- Bar Code (Faces down when inserted into meter)
- Handle
3. Reordering Information

For a description of the products listed below, please see the information above.

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coag-Sense PT/INR Professional System</td>
<td>03P60-01</td>
</tr>
<tr>
<td>Coag-Sense Test Strip Kit, Box of 50</td>
<td>03P56-50</td>
</tr>
<tr>
<td>Coag-Sense Control Strip Kit -10</td>
<td>03P69-10</td>
</tr>
<tr>
<td>MiniPipette, Pack of 2</td>
<td>03P55-02</td>
</tr>
<tr>
<td>Pipette Tips, Rack of 96</td>
<td>03P54-02</td>
</tr>
<tr>
<td>Sample Transfer Tubes, Pack of 54</td>
<td>03P53-54</td>
</tr>
<tr>
<td>Lancets, Normal Depth (Box of 100)</td>
<td>03P58-03</td>
</tr>
<tr>
<td>AC Power Adapter</td>
<td>03P64-01</td>
</tr>
</tbody>
</table>

4. Warnings and Precautions

⚠️ General

- This test system is not recommend for patients who have recently taken or are currently taking any type of Heparin anticoagulant.
Test Site and Blood Sample

- The Coag-Sense PT/INR system is for in vitro diagnostic use only.
- The Coag-Sense meter will not produce a result if the test strip is past its expiration date.
- The quality of the blood sample can affect PT test results. A blood sample of poor quality can produce unreliable results. Read the section on “Collecting a Fingerstick Sample” for more information.
- Blood samples must be applied to the test strip immediately after collection or the blood begins to clot, causing unreliable results.
- The blood sample transferred to the test strip must be a minimum of 10 µL in volume. Low sample volume may cause an error message.
- Use only fresh fingerstick capillary blood for testing. The blood should only come in contact with the products provided with the Coag-Sense PT/INR system. Other products may have anti-coagulant agents on their surfaces and result in unreliable test results.
- Squeezing the fingerstick site excessively (milking) releases interstitial “tissue layer” fluid that can cause unreliable results.
- The fingerstick site can be washed with warm water and soap, and then completely dried. The site must be clean of all hand oils/lotions and foreign matter, which may cause unreliable results.
- If Isopropyl Alcohol (IPA) wipes are used, wipe the fingerstick site with a gauze pad and make sure the site
is completely dry. If any alcohol remains (or is re-introduced) on the finger, it may cause unreliable results.

- **The quality of fingerstick and the sample delivery technique are important to the test results. If there is a question about the sample or sample collection, obtain a new strip, repeat the fingerstick on a different finger, and test again.**

- If you need to repeat a test, use a different finger for the fingerstick, since blood may have started to clot on the first finger, which may cause unreliable results.

- If there is a bubble or an air pocket showing in the blood sample in the collection tube, start the test over. Use a new fingerstick (using a different finger and collection tube) or results may be unreliable.

- Refer to the package inserts provided with the Lancets and Sample Transfer Tubes for more information.

**Meter**

- If using batteries, use only AA 1.5 V alkaline batteries in the Coag-Sense meter. Rechargeable batteries cannot be used as they may damage the meter.

- Use only the included Coag-Sense AC adapter with the meter or damage to the meter may result.

- The meter is a delicate instrument, and should be handled with care. Dropping or other mishandling may cause damage to the meter. If this should occur, call Technical Support.

- Do not allow any liquids to spill on the meter. If this should occur, call Technical Support.
- Do not put the meter in liquid. Do not allow liquids to get into any of the connectors or plugs on the meter.
- Only use the method provided in this User Manual to clean the Coag-Sense PT/INR meter.
- Do not move or touch the meter while it is running a test. Unreliable results may occur.
- Store and use the Coag-Sense PT/INR system following the instructions in this manual.
- This equipment is tested to meet the limits for medical devices, which is designed to provide a reasonable protection against harmful interference when the equipment is operated in a clinical or home environment. If not installed and used in accordance with these instructions, it may cause harmful interference to other devices in the vicinity. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving device.
  - Increase the separation between the equipment.
  - Connect the equipment to an outlet on a circuit different from that to which the other devices are connected.
- Any equipment connected to the data port must be certified to IEC 60601-1. If you connect any equipment that is not recommended by CoaguSense, you are responsible for meeting the requirements of this standard.
- In the unlikely event of an electric power surge (i.e., severe static discharge during a thunderstorm), when
using the optional AC power adapter, the display screen may go blank. If this occurs, unplug the power supply from the back of your meter, wait 5 seconds and plug it back in. Normal operation should return, but you may have to reset the time and date.

- DO NOT OPEN THE METER. Do not attempt to repair or modify this meter. The Coag-Sense meter does not require any periodic maintenance and there are no user serviceable parts inside. If you have problems, please contact technical support or your health care provider to arrange for service.

**Test Strips/ Control Strips/Control Strip Activating Solution**

- The test strips are designed for single use only. Do not reuse the test strips.

- Patient samples, controls, used strips and lancets are potentially infectious. Discard used materials in a puncture resistant, biohazard waste container using universal precautions.

- PT Test Strips, Control Strips, and Control Strip Activating Solution are perishable goods with a limited shelf life. Do not use any of these items if the expiration date has passed.

- Refer to the package insert that is supplied with each box of test strips for more information.
## 5. Hazards and Symbols

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Warning" /></td>
<td><strong>Warning.</strong> This indicates a warning or precaution, requiring special attention</td>
</tr>
<tr>
<td><img src="image" alt="Class II Equipment" /></td>
<td>Class II Equipment. The AC Adapter is double insulated</td>
</tr>
<tr>
<td><img src="image" alt="Biological Risks" /></td>
<td>Biological Risks: Disposable items pose biological risks. The strips and fingerstick materials should be disposed in appropriate biohazard waste containers</td>
</tr>
<tr>
<td><img src="image" alt="Electronic device" /></td>
<td>Electronic device. Dispose of unit and batteries properly</td>
</tr>
<tr>
<td><img src="image" alt="Use by/Expiration Date" /></td>
<td>Use by/Expiration Date</td>
</tr>
<tr>
<td><img src="image" alt="Lot number" /></td>
<td>Lot number</td>
</tr>
<tr>
<td><img src="image" alt="For In vitro diagnostic use" /></td>
<td>For In vitro diagnostic use</td>
</tr>
<tr>
<td><img src="image" alt="Storage temperature range" /></td>
<td>Storage temperature range</td>
</tr>
<tr>
<td><img src="image" alt="Manufacturer" /></td>
<td>Manufacturer</td>
</tr>
<tr>
<td><img src="image" alt="Single Use Only – Do Not Reuse" /></td>
<td>Single Use Only – Do Not Reuse</td>
</tr>
<tr>
<td><img src="image" alt="This product meets the provisions of Council Directive 98/79/EC for In Vitro Diagnostic Devices" /></td>
<td>This product meets the provisions of Council Directive 98/79/EC for In Vitro Diagnostic Devices</td>
</tr>
<tr>
<td><img src="image" alt="Authorized/European Representative" /></td>
<td>Authorized/European Representative</td>
</tr>
</tbody>
</table>
Directions for Use

Note: The Coag-Sense PT/INR system is packaged in a special box. Do not discard this box. Re-use the package to transport the meter or, if directed by Customer Service to return it for testing.

6. Operating Conditions

To ensure that your Coag-Sense PT/INR system is working correctly, be sure the following conditions are met:

- Be sure that the meter and strip are at room temperature before use. Room temperature is between 65°F and 90°F (18°C and 32°C). The meter will not allow a test to proceed until the meter is at room temperature.
- Relative humidity should be between 10% and 85%, without condensation, for testing.
- Avoid dropping the meter or treating it roughly.
- Use the meter only on a level, stable surface.
- Do not move or touch the meter during testing.
- Do not place the meter in direct sunlight or high intensity light.
7. Power On and Off

- Install the AA 1.5 V batteries, which are needed to maintain the time and date settings. (See “Replacing the Batteries” for more information). The AC adapter can be connected at this time.

- Place the meter on a flat, stable surface. To turn the meter on. Press the **POWER** button, which is on the topside of the meter, beneath the display. To turn the meter off, press the same **POWER** button again.

8. Setting the Time and Date

**Action**

1. If the date and time have not been set before on the meter or the setting has been lost, the display looks like this with blinking characters.

2. The blinking characters may be changed by pressing + to increase or – to decrease. When correct, press **NEXT** to advance to the next character.

**Meter Display**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>12:00PM</th>
<th>1/01/04</th>
</tr>
</thead>
<tbody>
<tr>
<td>DONE</td>
<td>NEXT</td>
<td>+</td>
<td>-</td>
</tr>
</tbody>
</table>

Press **NEXT** to advance to next character.
Action

3. Once you have entered the correct date and time, press **DONE** to exit this function.

4. Once the date and time are set, the display looks like this.

5. If you need to change the date or time in the future, press **SET**. The meter display shows the set time and date.

6. Adjust the time and date by pressing + to increase or – to decrease. When the time and date are correct, press **DONE** when finished.

**Note**: The clock time does not adjust for daylight savings time. The date format is mm/dd/yy.
9. Performing a Control Test

Control testing confirms the performance of both the meter and the test strips and should be completed for each new lot of test strips. Control testing can also be run whenever the PT results are unusual to make sure that the system is working properly. There are 2 low control strips, 2 high control strips and a control strip activation solution shipped with each professional PT test strip kit. Extra controls may be ordered separately.

Follow these steps to perform a test on a low or high control.

**Note**: The following directions are for running a low control strip. When this procedure is complete, run a high control strip. The controls may be run in any order. The meter will display and store the results in PT seconds only. The meter does not use or require results from the control strips prior to running a patient test strip.

**WARNING**: Do not move or touch the meter while it is running a test. Unreliable results may occur.

**Note**: If an error message appears, consult the “Troubleshooting” section of this manual.
Action

1. Make sure that the power is on by pressing the POWER button on the top of the meter and the display looks like this.

2. Open a low control package, tearing at the notched end. Remove the strip. Set the package aside.

   **Note**: Make sure that the expiration date has not passed by checking the date on the front of the control package.

3. Holding the round end, gently push the strip completely into the meter. The strip fits snugly when pushed all the way toward the back wall of the strip holder.

4. When the strip is correctly inserted, the display looks like this.

   **Note**: If anything other than this is displayed, refer to

<table>
<thead>
<tr>
<th>READY</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSERT</td>
</tr>
<tr>
<td>STRIP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OFF</th>
<th>SET</th>
<th>MEM</th>
</tr>
</thead>
</table>

LOW CONTROL DETECTED
Action

the “Troubleshooting” section.

5. The meter warms the strip. The display looks like this. It shows a countdown of the time remaining during the warm-up cycle.

Note: Do not apply the control activation solution until the warm-up is complete and the meter tells you to do so.

6. The meter beeps once when it is ready for the control strip activation solution. The screen looks like this.

Note: You now have 2 minutes to apply the activation solution to the control strip.

7. Open the control activation solution bottle by unscrewing the lid. Hold lid out way using fore finger.

8. Press the plunger then insert the tip of the MiniPipette into the solution. Slowly release the pressure on the plunger allowing the MiniPipette tip to fill with control activation solution.
Action    Meter Display

Note: Be careful to avoid getting bubbles in the pipette tip.

9. Right after collecting the control strip activation solution, place the tip of the pipette at a 45° angle into the sample well on the control strip where you see the flashing green light. Touch the plastic tip down onto the sample well.

10. Slowly dispense the sample by pressing the plunger down with care not to introduce air bubbles into the sample. Lift the pipette tip out of the liquid before releasing the plunger.

11. Remove the pipette tip and discard.

12. When the control activation solution is properly applied and detected, the meter display looks like this.

Note: If this screen is not displayed, either not enough solution was applied or the solution had bubbles in it. Remove the strip. Retest with a new control strip. DO NOT attempt to add more solution to the strip.
13. When testing is complete, the display shows “OK” and looks similar to this.

<table>
<thead>
<tr>
<th>Meter Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>LO CONTL OK</td>
</tr>
<tr>
<td>PT 22.5</td>
</tr>
<tr>
<td>10/18/11 5:01 PM</td>
</tr>
<tr>
<td>REMOVE STRIP</td>
</tr>
</tbody>
</table>

**Note**: To avoid confusing control strip INR results with patient test strip INR results, control test results will display in PT seconds only.

**Note**: The date and time shown in the display are examples only. The date and time shown after actual testing is the current date and time.

**Note**: If anything other than this is displayed, refer to the “Troubleshooting” section.

**Note**: Remember to repeat this entire procedure with a high control strip.

14. When high control testing is complete, the display shows “OK” and looks similar to this.

<table>
<thead>
<tr>
<th>Meter Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI CONTL OK</td>
</tr>
<tr>
<td>PT 42.1</td>
</tr>
<tr>
<td>10/18/11 5:05 PM</td>
</tr>
<tr>
<td>REMOVE STRIP</td>
</tr>
</tbody>
</table>

15. Once the controls have been successfully tested, remember to throw the control strips into a biohazard container. You can now proceed to testing patient blood samples. If you are not going to test, turn off the meter by pressing the **POWER** button. The opened control activation solution may be used until the expiration date.
10. Performing a PT Test

⚠️ WARNING: Place the meter on a stationary, level surface for testing. Do not move the meter or allow it to vibrate during a test. Unreliable results may occur. Wear gloves and follow all applicable hygiene and safety procedures.

Action

1. Make sure that the meter is on by pressing the POWER button on the top of the meter.

   Note: If an error message appears, refer to the “Troubleshooting” section.

2. Open a PT test strip package, tearing at the notched end. Remove the strip. Set the package aside.

   Note: Make sure that the expiration date has not passed.

3. Holding the round end, gently push the strip completely into the meter. The strip fits snugly when pushed all the way toward the back wall of the strip holder.
Performing a PT Test

Action

4. When the test strip is correctly inserted, the display looks like this.

5. The meter warms the strip. The display looks like this. The meter counts down the time remaining during the warm-up cycle.

*Note*: Do not apply any sample until the warm-up is complete and the meter tells you do so.

While the meter is warming up, get ready to perform a fingerstick. See “Collecting a Fingerstick Sample” in this manual.

6. When the warm-up is complete, the meter beeps once. The screen looks like this.

*Note*: You now have 2 minutes to apply the sample to the test strip.
Action

7. Right after collecting the patient sample, place the tip of the MiniPipette at a 45° angle into the sample well on the test strip where you see the flashing green light. Touch the plastic tip down onto the sample well.

8. Slowly dispense the sample by pressing the plunger down with care not to introduce air bubbles into the sample. Lift the pipette tip out of the liquid before releasing the plunger.

9. Remove the pipette tip and discard it in a biohazard waste container.

10. When the sample is detected, the meter display looks like this.

Note: If this screen is not displayed, either not enough blood sample was applied or the sample had air bubbles in it. Remove the strip and retest with a new strip.
Action

11. When testing is complete, the meter beeps once. The results (INR and PT in seconds) are shown on the screen.

<table>
<thead>
<tr>
<th>Meter Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>INR 2.2</td>
</tr>
<tr>
<td>PT 22.2</td>
</tr>
<tr>
<td>1/18/10 5:50 PM</td>
</tr>
<tr>
<td>REMOVE STRIP</td>
</tr>
</tbody>
</table>

**Note**: If any display other than the one shown is visible (such as CLOT TIME TOO SHORT or CLOT TIME TOO LONG), refer to the “Troubleshooting” section.

12. Record the results. Then remove the test strip. Throw it away in a biohazard collection container.

**Note**: Repeat the test if the results seem unusually low or high. If the results still seem unusual after a second test, contact Technical Support.

Turn the meter off by pressing the **POWER** button when you are finished testing. If left unattended, the meter automatically turns off in a few minutes.

The last 100 test results are stored in memory with the time and date. Refer to “Reviewing the Memory” in this manual for more information.
**WARNING: Unexpected results**

An unexpected result may include any result that falls outside the patient’s therapeutic target range, or a result that falls inside the target range but is not consistent with the patient’s current health status (e.g., patient is experiencing bleeding or bruising).

**What can cause unexpected results:**

Certain prescription drugs (for example, heparin) and certain over-the-counter medications (for example, antibiotics) can affect the action of oral blood thinners and the INR value.

1. Changes in diet, lifestyle, or taking nutritional supplements such as ginkgo biloba can affect the action of oral blood thinners and the INR value.

2. Liver diseases, congestive heart failure, thyroid dysfunction, Lupus, antiphospholipid antibody syndrome (APS) and other diseases or conditions can affect the action of oral blood thinners and the INR value.

3. Be sure to confirm whether the patient has any of these conditions before you begin testing, and any time there are changes in health patient status or medications after you have begun testing.

**What to do when you get an unexpected result:**

Follow instructions for re-testing on the Coag-Sense PT/INR meter. For unexpected results, contact Technical support at 1-866-903-0890. Consider re-testing using an alternative method prior to adjusting the patient’s dose of anticoagulant medication, or any other corrective actions.
11. Collecting a Fingerstick Sample

Tips for a Successful Fingerstick

- Make sure that you have all the supplies needed before you start.
  - Lancet device (Single use, auto disabling)
  - MiniPipette and pipette tips or Sample Transfer Tubes
  - Sterile alcohol prep pads
  - Gauze square
  - Band-Aids
  - Biohazard waste container (SHARPS)
- For fingerstick blood testing, increasing the flow of blood in the finger will help you capture a good drop of blood. Before you prick the finger, have the patient warm their hand by washing it in warm water, holding it under their armpit, or by using a hand warmer. Ensure that the patient’s hand is dry prior to testing.
- Do not use fingers with tight rings, scars, calluses, or other features that prevent getting good access to the blood.
- One of the middle or index fingers on either hand is recommended.
- Gently squeeze or massage the finger to be lanced, near the tip. Good circulation can be seen if the patient’s fingertip changes to a pinkish shade.
- Use a **21g 1.8 mm** depth single-use auto-disabling lancet. **Smaller gauge/shallow depth lancets** (i.e.
diabetes 23g lancets) should not be used. Refer to the Lancet device instructions for more information on use.

- Lance the fleshy part of the fingertip just slightly left or right of the center. **Press lancet firmly against finger.**
- For better blood flow, you may have the patient hold their hand below their heart. **Squeeze the finger from the sides to open up the wound for proper blood flow if necessary.**

**The best test sample is when:**

- The blood is collected right after the fingerstick and put into the sample well without delay. If the blood is not collected or tested quickly, repeat with a fresh fingerstick and a new strip.
- There are no bubbles or air pockets in the tube or sample.

!!! WARNING: Patient samples, controls, used test strips and lancets are potentially infectious. Dispose of strips and collection devices using universal precautions.
Action

1. Have patient wash hands with soap and warm water. Dry completely.

2. Choose a site near the top of one of the middle fingers to lance.

Note: Avoid the more sensitive area in the center. Stay away from any calluses or scars.

3. Clean the fingertip with an alcohol wipe using one side for the first cleaning. Use the second side for a final wipe.

4. Dry the fingertip with gauze to remove any excess alcohol.

5. Place the patient’s on solid surface with the palm of the hand facing up.
6. Remove the cap from the single use lancet. Place it against the skin. Holding the body of the lancet, push down firmly against the finger to lance the surface of skin. **Do not lance finger until meter displays “APPLY SAMPLE”**. A minimum of 10µl of collected blood sample is required.

**Note**: The blood should bleed freely. If it doesn’t, gently squeeze the finger to get it started. Lowering the patient’s hand and arm so that the fingertip is below the heart helps the blood drop form.

**WARNING**: Squeezing the fingerstick site excessively (milking) releases interstitial “tissue layer” fluid that can cause unreliable results.
7. Collect the sample using one of the sample collection and transfer methods described in this manual.

8. Once you have collected the sample, immediately put it into the sample well on the test strip. See “Performing a PT Test”.

**WARNING:** If there is a bubble or an air pocket showing in the blood sample in the collection tube or tip, start the test over with a new strip and fingerstick on a different finger.

9. Apply gauze to the patient’s fingerstick site with firm pressure until the bleeding stops. Apply a bandage if desired.

10. Throw the lancet and the strip into a SHARPS container.
Sample Collection and Transfer Methods

MiniPipette

Use this procedure to apply a capillary whole blood sample or control activation solution to the strip.

1. Firmly attach a pipette tip to the end of the MiniPipette. To ensure an airtight seal, a gentle twist helps.

*Note*: Failure to secure a snug fit may cause an air bubble to form in the tip causing that sample to be unacceptable for testing.

2. When ready to collect the drop of blood, push the plunger on the MiniPipette down as far as you can and hold it down.

3. Place the disposable tip into the drop of blood, being careful to hold the MiniPipette at a slight angle.
4. Release the button slowly in one smooth motion, drawing up the sample.

**Note**: Ensure that you have not introduced a bubble in the sample by looking at the pipette tip. If a bubble is present, the test must be repeated.

5. Place the tip into the sample well on the test strip (green flashing light area) keeping the MiniPipette at a 45° angle. Touch the plastic tip down onto the sample well.

6. Dispense the sample by slowly pressing the plunger down. Lift the pipette tip out of the liquid before releasing the plunger.

7. Remove the pipette tip and discard it in a biohazard waste container.

**Note**: If you release the plunger while the tip is still in the sample well, it could remove some of the sample from the well. This could lead to short sampling errors.
Sample Transfer Tubes

In place of the MiniPipette, you may use the Sample Transfer Tubes included with each box of Coag-Sense test strips.

1. When ready to collect the drop of blood, hold the Sample Transfer Tube vertically between your thumb and forefinger near middle of tube.

2. Squeeze the tube. While maintaining pressure, immerse the open end into the drop of blood at a slight angle to the finger surface.

3. Release pressure, drawing the blood into the tube, making sure the blood reaches the black line.

**Note**: *If the tube is pushed against the finger surface, this can result in rapid suction allowing air to be pulled into tube. This renders the blood sample unacceptable for testing.*
**Note**: It is acceptable if the blood goes slightly beyond the black line; however, the minimum amount (up to the black line) must be collected. Never add more blood to the test strip. Never collect a second sample from a fingerstick. If there is not enough blood in the tube, you must repeat the entire testing procedure.

4. Once you have collected the sample, immediately put it in the sample test well (above the flashing light) on the strip. Touch down the tip of the tube into the test strip sample well and squeeze the tube once again in a different location on the tube to deliver the blood. It is important to be sure no air bubbles are introduced during blood delivery.

5. Maintain pressure while removing the tube from the test strip and discard it in a biohazard waste container.

**Note**: If you release the tube while the tip is still in the sample well, it could remove some of the sample from the well. This could lead to short sampling related errors.
12. Reviewing the Memory

The Coag-Sense meter stores up to 100 results along with the date and time, in its memory. When the 100th result is reached, the first result 1 is replaced (written over) with test results for test number 101. This continues with the oldest result being replaced with the most recent. Memory is not lost if there is a break in power for any length of time. Memory cannot be erased.

Action

The memory can be accessed from any mode that displays a MEM button.

1. Press MEM. The meter displays the last two records.

2. Press PREV or NEXT to scroll through the result records.

3. Press DONE when finished.

Meter Display

Example of display with two most recent records:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>INR</th>
<th>PT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/07/12</td>
<td>12:56 PM</td>
<td>5.2</td>
<td>49.1</td>
</tr>
<tr>
<td>2/06/12</td>
<td>12:56 PM</td>
<td>2.9</td>
<td>28.8</td>
</tr>
</tbody>
</table>

DONE   NEXT   PREV

Note: If any messages are displayed, such as CLOT TIME TOO SHORT, or CLOT TIME TOO LONG refer to the “Troubleshooting” section of this manual.
13. Printing

With the optional portable printer and cable results from the Coag-Sense meter memory can be printed on either thermal paper or other media such as thermal labels for applying to patient charts.

What you’ll need:

- Coag-Sense meter running software version 3.85 or greater
- Citizen Pocket Printer PD-22 thermal portable printer
- Citizen RS232C Cable Model PD79901
- Serial Cable Null Modem Adapter (available from CoaguSense at no charge)
- Citizen Thermal Paper PD99906-OM or 2” wide thermal labels

Printing Test Results:

1. Attach the Null Modem Adapter to the data port on the back of the Coag-Sense Meter. Connect the large DB9 end of the Citizen printer cable to the Null Modem Adapter. Insert the small cable connector into the side of the Citizen printer.

2. Press and hold the green power button on the left side of the Citizen printer until the power light comes on the printer to the

3. Turn on the CoaguSense meter.

4. Press MEM. The two most recent results in memory will be shown. If you wish to go further back into the meter’s memory to print a result press NEXT. Continue to press
NEXT until the desired result(s) are visible in the display. Press PREV if you need to scroll back to more recent results.

5. Once you have the result(s) you wish to print displayed, press PRINT. To print the top result in the display window press PRN1. To print the bottom result in the display window press PRN2. To print all results in memory press ALL. If ALL is pressed the screen will flash through all results in memory as it sends them to the printer.

Note: If ALL is accidently pressed you can stop the printer by pressing STOP.

If the results fail to print, confirm that the printer is on as it automatically turns off after a few minutes.

For assistance with the printing function call Technical Support at 1-866-903-0890.
14. Control Strips

Quality control is an important part of PT time testing. Using the high and low control strips ensures you are performing the steps of the test correctly. It also ensures that your Coag-Sense System is working properly and that test strips were not subjected to temperature extremes during shipment.

One high and one low control should be tested before using a new PT test strip lot. Controls should also be tested if you have unexpected results. There are 2 low control strips, 2 high control strips and one control activation solution bottle shipped with each new box of test strips. Additional controls may be ordered separately. See “Performing a Control Test” in this manual.

15. Replacing the Batteries

It is not necessary to install batteries in the meter if the optional AC adapter is plugged into a wall socket. However, if no batteries are installed and the meter is unplugged or there is a power outage, the time and date settings reset to the factory settings.

The meter is designed for AA 1.5 V alkaline batteries only. It does not re-charge these alkaline batteries when connected to AC power.

**WARNING:** Use only AA 1.5 V alkaline batteries in the Coag-Sense meter. Rechargeable batteries should not be used as they can result in damage to the meter.
The AA 1.5 V batteries will last for approximately 300 tests if the meter is operating only on batteries. The batteries may last through their shelf life if the optional AC power adapter is plugged in.

If the batteries are running low, the meter displays a **BATTERY LOW** message. The meter can run one or two additional PT tests, but the batteries should be replaced as soon as possible. You can plug the optional AC power adapter into a wall socket and replace the batteries later.

When the message **BATTERY TOO LOW SEE MANUAL** appears on the meter display, the meter shuts off after a brief delay. The batteries must be replaced or the meter must be connected to a wall socket with the optional AC power adapter to continue testing. The meter time and date settings are lost and the meter will need to have the date and time reset. See “Setting the Time and Date” in this manual.

**Complete the following steps to replace the AA 1.5 V alkaline batteries.**

1. Turn the meter upside down.

2. Remove the battery door by pressing on the battery door releases.
3. Remove the old batteries and replace with 4 new standard 1.5V AA alkaline batteries. (The proper direction for battery placement is shown on a figure inside the battery compartment).

4. Replace the battery door.

5. Properly dispose of old batteries.
16. Cleaning and Disinfecting the Meter

No maintenance is required other than routine cleaning and/or disinfecting. To clean the outside of the meter use a clean damp non-abrasive cloth.

If instructions for use are properly followed, patients should not come in direct contact with the Coag-Sense meter thereby reducing the possible transmission of bloodborne pathogens between patients. Sample should always be transferred from the patient to the meter using a new disposable sample transfer tube or disposable pipette tip.

The meter housing or the MiniPipette can be disinfected using a 10% bleach solution (EPA reg. No. 5813-50). Apply the disinfecting product to a lint-free cloth and wipe the meter or MiniPipette for a minimum contact time of 2 minutes.

The test strip is designed to contain the patient sample, preventing it from entering the meter. Do not clean/disinfect inside the meter where the test strip is inserted, cleaning this area should be avoided. Please call Technical Support at 1-866-903-0890 if this area requires cleaning/disinfecting.
After disinfecting the meter, gloves should be removed and hands washed before proceeding to the next patient.

Please call technical support at 1-866-903-0890 with any cleaning or disinfecting questions.

⚠️ **WARNING:** Do not put the meter in liquid. Do not allow liquids to get inside the meter or into any of the connectors or plugs on the meter. If you suspect any physical damage or deterioration of the meter (such as cracking or gross distortion), or if the meter does not turn on after cleaning, call Technical Support.

Always refer to local, state and federal disinfecting guidelines. More information on bloodborne pathogen safety and proper disinfecting techniques can be found at:


[http://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/ucm224025.htm](http://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/ucm224025.htm)


[http://www.cdc.gov/injectionsafety/Fingerstick-DevicesBGM.htm](http://www.cdc.gov/injectionsafety/Fingerstick-DevicesBGM.htm)
17. Troubleshooting

You may see the following error messages while using the CoagSense meter. This section discusses how to resolve most problems that you might encounter. If you have any questions or problems during the troubleshooting process, note the display wording and contact Technical Support at 866-903-0890 or email techsupport@coagusense.com.

<table>
<thead>
<tr>
<th>Meter Display</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMOVE STRIP</td>
<td>Meter turned off with used strip in it.</td>
<td>Remove the strip and begin again.</td>
</tr>
<tr>
<td>NO SAMPLE DETECTED</td>
<td>Either no sample or not enough sample was applied to the strip within 2 minutes after the “Apply Sample” message was displayed. This can also happen if sample is applied on the strip but outside of the sample application area.</td>
<td>Repeat the entire procedure (including fingerstick on a different finger) with a new strip.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Apply the sample within 2 minutes after display of the “Apply Sample” message.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ensure that the pipette tip/transfer tube touches the sample well before dispensing sample.</td>
</tr>
<tr>
<td>Meter Display</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CLOT TIME TOO SHORT</td>
<td>The clotting time was very short and out of testing range. <strong>There was insufficient sample due to an air bubble in the sample or the sample was drawn back into the pipette tip or transfer tube before removing it from the sample well.</strong></td>
<td>Repeat the entire procedure (including fingerstick on a different finger) with a new strip. Visually confirm that no air bubbles are in the sample before applying to test strip. Release pipette plunger or pressure on the transfer tube only after removing pipette tip/transfer tube from sample application well. If the same message repeats, contact Technical Support.</td>
</tr>
<tr>
<td>Meter Display</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CLOT TIME TOO LONG</td>
<td>The sample clotting time was very long and out of testing range.</td>
<td>Repeat the entire procedure (including fingerstick) with a new strip.</td>
</tr>
<tr>
<td></td>
<td>There was insufficient sample due to an air bubble in the sample or the sample was drawn back into the pipette tip or transfer tube before removing it from the sample well.</td>
<td>Visually confirm that no air bubbles are in the sample before applying to test strip.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Release pipette plunger or pressure on the transfer tube only after removing pipette tip/transfer tube from sample application well.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Confirm that the patient has not recently taken heparin or other contraindicated drugs listed on the test strip package insert.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If the same message displays, use an alternative testing method and contact Tech Support.</td>
</tr>
<tr>
<td>CAL EXPIRED OR INVALID</td>
<td>The lot of strips has expired.</td>
<td>Use a different lot of strips that has not expired. Also verify the date setting on the meter is current.</td>
</tr>
<tr>
<td>Meter Display</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CONTROL OUT OF RANGE</td>
<td>The control strip result is outside of its acceptable range. This may be due to a problem with the control strip, activation solution or the storage of the Coag-Sense Control Strip Kit.</td>
<td>Use MiniPipette (not transfer tube) to apply control activation solution. Repeat test with another control strip. If the second test is out of range, contact Technical Support.</td>
</tr>
<tr>
<td>ROOM TEMP INCORRECT SEE MANUAL</td>
<td>The temperature of the room is either below or above the temperature range of the meter.</td>
<td>Move the meter to a place that is within the temperature range of the meter (65°F to 90°F, 18°C to 32°C) and allow meter time to adjust to correct temperature. Repeat testing.</td>
</tr>
<tr>
<td>WHEEL PROBLEM</td>
<td>There may be a problem with the strip or with the meter or a used strip was inserted.</td>
<td>Reinsert the strip holding the back of the meter steady with one hand while inserting the strip completely using a quick smooth motion with the other hand. If display persists try again with another strip. If the message displays again, contact Tech Support.</td>
</tr>
<tr>
<td>Meter Display</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BAR CODE READ FAILURE</td>
<td>The strip was inserted incorrectly or there may be a problem with the strip or with the meter.</td>
<td>Take the strip out and reinsert holding the back of the instrument steady with one hand while inserting the strip completely with the other hand. Insert the strip using a quick smooth motion.</td>
</tr>
<tr>
<td></td>
<td>The meter is in direct sunlight or near a high-intensity light source.</td>
<td>Move the meter indoors into room lighting or away from light source.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If error persists try again with another strip. If the message displays again, contact Tech Support.</td>
</tr>
<tr>
<td>HEATER PROBLEM</td>
<td>The meter is too warm or too cold, or there may be a problem with the meter.</td>
<td>Move the meter to a place that is within the temperature range of the meter (65°F to 90°F, 18°C to 32°C) and allow meter time to adjust to correct temperature.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turn meter off then on again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Try again with another strip.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If the display persists contact Tech Support.</td>
</tr>
<tr>
<td>Meter Display</td>
<td>Possible Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DETECT PROBLEM</td>
<td>There may be a problem with the strip or with the meter.</td>
<td>Take the strip out and reinsert holding the back of the instrument steady with one hand while inserting the strip completely with the other hand. Insert the strip using a quick smooth motion. Try again with another strip. If the message persists contact Technical Support.</td>
</tr>
<tr>
<td>LIQUID PROBLEM</td>
<td>There may be a problem with the strip or with the meter.</td>
<td>Try again with another strip. If the message persists contact Technical Support.</td>
</tr>
<tr>
<td>MOTOR PROBLEM</td>
<td>There may be a problem with the strip or with the meter.</td>
<td>Turn the meter off then back on. Try again with another strip. If the message persists contact Technical Support.</td>
</tr>
<tr>
<td>BATTERY LOW</td>
<td>The meter batteries need to be replaced.</td>
<td>The meter can complete the current test, as well as one or two more tests. However, the batteries should be replaced as soon as possible.</td>
</tr>
<tr>
<td>BATTERY TOO LOW</td>
<td>The meter batteries must be replaced.</td>
<td>Replace batteries to continue with testing.</td>
</tr>
</tbody>
</table>
18. Performance Characteristics

**Expected Values**: Results are reported in INR units equivalent to the plasma reference method. For PT testing, variations in the source of thromboplastin may cause some differences in results between methods. It is recommended that the same method be used to monitor the anticoagulation therapy over time.

**Measuring Range**: INR 0.8 to 8.0

**Normal Range**: The following example represents a common normal range for the Coag-Sense PT/INR system.

INR: 0.7 to 1.2
PT: 8.0 to 15.0
## 19. Meter Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>65°F to 90°F (18°C to 32°C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>10% to 85°C% (without condensation)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F to 122°F (-20°C to 50°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10% to 95% (without condensation)</td>
</tr>
<tr>
<td>Memory</td>
<td>Capable of storing 100 tests with time and date</td>
</tr>
<tr>
<td>Battery</td>
<td>Quantity 4 of 1.5V (AA) alkaline batteries</td>
</tr>
<tr>
<td>AC Input</td>
<td>120V AC (Use with Coag-Sense Adapter Only)</td>
</tr>
<tr>
<td>Power Output</td>
<td>6.0V, 2.0A</td>
</tr>
<tr>
<td>Blood Sample Size</td>
<td>10-12 µL</td>
</tr>
<tr>
<td>Data Port</td>
<td>RS232</td>
</tr>
<tr>
<td>Size</td>
<td>3&quot; (7.6 cm) x 6.5&quot; (16.5 cm) x 5.75&quot; (14.5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>With 4 AA 1.5 V alkaline batteries: 1.8 lb. (658 g)</td>
</tr>
<tr>
<td>Equipment Classification</td>
<td>Class II with external power supply. Internally powered when operated with batteries. IPXO rating.</td>
</tr>
</tbody>
</table>

**WARNING:** Use only the Coag-Sense AC adapter or damage to the meter may result.
20. Warranty

Limited One (1) Year Warranty

Use of the Coag-Sense PT/INR System

The Coag-Sense PT/INR system is designed for use in monitoring patients on oral anticoagulant therapy. Proper adherence to the instructions in this User Manual and package insert are critical to proper operation. **WARNING:** Failure to comply with the User Manual could lead to inaccurate PT/INR results which could lead to incorrect medication dosing which could lead to injury or death.

Limited Warranty

CoaguSense warrants that the Coag-Sense meter is free from all defects in material and workmanship for a period of one (1) year from date of purchase. When the meter is used for the intended purpose and in the appropriate manner, the remedy is repair or replacement at CoaguSense’s option. The warranty does not apply to a meter damaged by misuse, alteration or tampering to either the hardware or software. Contact Technical Support at 1-866-903-0890 for instructions.

**THIS WARRANTY APPLIES ONLY TO THE METER. COAGUSENSE’S ENTIRE LIABILITY IN CONNECTION WITH THE METER, REGARDLES OF THE LEGAL OR EQUITABLE BASIS OF ANY CLAIM, IS LIMITED TO THE PURCHASE PRICE OF THE METER. IN NO EVENT SHALL COAGUSENSE, INC. BE LIABLE TO THE PURCHASER FOR ANY INCIDENTAL, CONSEQUENTIAL (INCLUDING BUT NOT LIMITED TO LOSS OF INCOME OR PROFITS) SPECIAL, INDIRECT, OR PUNITIVE DAMAGES ARISING FROM OR IN**
ANY WAY CONNECTED WITH THE PURCHASE OR OPERATION OF THE METER OR ITS PARTS. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS IMPLIED FROM THE SALE OF THE COAG-SENSE PT/INR SYSTEM. NO WARRANTY, EXPRESS OR IMPLIED (IF ANY) SHALL EXTEND FOR A LONGER DURATION THAN THE DURATION OF THE EXPRESS WARRANTY STATED ABOVE.

Instructions for Meter or Product Return

Upon review and agreement with CoaguSense Customer Service, you may be directed to return the unit. Should this occur, clean the outside surface using 10% bleach solution as described in the “Cleaning and Disinfecting the Meter” section. The original packaging may be required for this purpose. If this is not available, a cushioned shipping box may be required.
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