### 283.551 CLINITEK Status Operator s Guide - WTVA POC

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CLINITEK Status<sup>®</sup>+Analyzer

# Operator's Guide for End Users

For West Texas VA

Parts not applicable to day to day routine operation have been removed.

A complete copy of the Operators Guide will be provided in case of need.

Please note page numbers in text of manual ay refer to the complete manual. Not this copy.

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If the system is used in a manner differently than specified by

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#### 1 Introduction

Intended Use	7	
Summary and Explanation	7	
Getting Started		
Unpacking the Clinitek Status+ Analyzer	8	
Assembling the Clinitek Status+ Analyzer	10	(
Powering On/Off		
Hardware Overview		
Display		
Test Table		
Printer	20	
Connections and Power		
Memory Card Slot	20	
Software Overview		
Touch Screen	21	
Entering Information	27	
-		

#### Operations 2

Operations	<u>`</u> 0`
Performing a Urinalysis Strip Quick Test	
Preparing a Urinalysis Strip Quick Test	
Running a Urinalysis Strip Quick Test	
Viewing the Urinalysis Strip Quick Test Results	32
Viewing Sample Interference Notes	
Printing the Urinalysis Strip Quick Test Results	
Completing the Urinalysis Strip Quick Test	34
Performing a Urinalysis Strip Full Test	
Entering Operator and Patient Information	
Preparing a Urinalysis Strip Full Test	40
Running a Urinalysis Strip Full Test	40
Selecting the Appearance of the Urine Sample	41
Viewing the Urinalysis Strip Full Test Results	42
Printing the Urinalysis Strip Full Test Results	43
Completing the Urinalysis Strip Full Test	44

### 3 Calibration & QC

Calibration Overview	51
Cleaning the White Calibration Bar	51
Quality Control Overview	53
Urinalysis Strip Quality Control Testing	54
hCG Cassette Quality Control Testing	54
Quality Control Troubleshooting	55

ŒIJŀ[ç^åÁæ)åÁ&`\!^}ŒÖ~^&@ã^^Á@ada\*ÁÆFÐE0EGQĂĠŀĔĹĹFÁQ^!•ĨĿÁĖDŐŠŒ/WÒSÁÜ@æ\*•ÁIJ^!æŧ!ÁÄŐ`ãa^ÆÝ VX West Texas VA Heatth Care System

4	Maintenance	
	Weekly Cleaning of the Test Table and Test Table Insert 57	
	Cleaning the White Calibration Bar5	3
	Disinfecting the Test Table and Table Insert	)
	Cleaning the Outside of the Analyzer6	2
	Changing the Batteries6	3
5	Troubleshooting	C
	Error Messages6	5
	Errors That Require Correction6	5
	Advisory Error Messages6	5
	Results Alert6	5
	Errors and Advisory Messages6	5
	Troubleshooting the Analyzer Operation	1)
	Calling for Assistance7	5
	Technical Support7	5
	Customer Support7	7
	Problem List	7
6	File Management	
	Recalling the Datient Test Recults	<b>`</b>

Recalling the Patient Test Results	80
Sending All the Test Results to a Computer	81
Sending Individual Test Results to a Computer	82
Deleting Patient Results	82

### 7 System Configuration

### Most of this section is deleted. See full manual if necessary

Running Diagnostics	126
Viewing the System Information	126
Viewing and Printing the System Configuration Settings	127

### **Appendix A: Safety Information**

Protecting Yourself from Biohazards	129
Recognizing Sources of Contamination	129
Preventing Contamination	129
References	130

### **Appendix B: Support Information**

Installation Details	131
Limitations of Liability	131

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Legal Information	
When to Contact Technical Support	131
Appendix C: Orderable Supplies	
Supplies and Optional Equipment	133
Supplies	
Optional Equipment	
Replacement Parts	
Documentation	
Appendix D: Specifications	
Analyzer Specifications	
Analyzer Dimensions	136
Environmental Specifications	
Electrical Requirements	
Safety Standards	
Safety Certifications	

### **Appendix D: Specifications**

Analyzer Specifications	135
Analyzer Dimensions	136
Environmental Specifications	136
Electrical Requirements	
Safety Standards	
Safety Certifications	
Electromagnetic Compatibility (EMC)	137
Tables of Results	137
English, Units – Conventional	138
English Units – International (SI)	143
English Nordic, Units – Nordic Plus System	148

### **Appendix E: Symbols**

153
153
154
156

### **Appendix F: Glossary**

Hardware Terms	
Software Terms	
Acronyms	
Index	

# 1 Introduction

The introduction explains how to get started, unpack, and install your CLINITEK Status<sup>®</sup> + analyzer. The introduction also includes an overview of the analyzer.

## **Intended Use**

The CLINITEK Status+ Urine Chemistry Analyzer is a portable, easy to use analyzer. It is designed to read only

Siemens Healthcare Diagnostics Reagent Strips for Urinalysis and Clinitest hCG tests.

This analyzer is intended for the measurement of the following in urine: Albumin, Bibilirubin, Blood (Occult), Creatinine, Glucose, Ketone, Leukocytes, Nitrite, pH, Protein, Protein-to-Creatinine Ratio, Albumin-to-Creatinine Ratio, Specific Gravity, Urobilinogen, and human Chorionic Gonadotropin (hCG).

These measurements are used to assist diagnosis in the following areas:

- Kidney function
- Urinary tract infections
- Metabolic disorders (such as diabetes mellitus)
- Liver function
- Pregnancy

Tests perfomed using the CLINITEK Status+ analyzer are intended for *in vitro* diagnostic use only.

The CLINITEK Status+ analyzer is intended for near patient (point-of- care) facilities and centralized laboratory locations.

## Summary and Explanation

The urinalysis strips also measure physical characteristics, including acidbase balance and urine concentration. Test results can be used along with other diagnostic information to rule out certain disease states and to determine if microscopic analysis is needed. Multistix PRO<sup>®</sup> urinalysis strips are ready to use upon removal from the bottle and the entire strip is disposable. The strips may be read visually, requiring no additional laboratory equipment for testing.

The strips can also be read on an instrument, using the CLINITEK<sup>®</sup> family of Urine Chemistry Analyzers and the appropriate software; Multistix PRO 11 Reagent Strips are for use on the CLINITEK 500 and CLINITEK Advantus<sup>®</sup> Analyzers only. The CLINITEK Status systems, CLINITEK 50 and CLINITEK 100 instruments automatically identify the strip being tested, using the ID bands near the handle of the strip. Contact your product representative for further information.

Multistix PRO urinalysis strips are for *in vitro* diagnostic use. They have been determined to be nonhazardous under the guidelines issued by OSHA in 29 CFR 1910.1200(d).



### Figure 1-1: Clinitek Status+ Analyzer Components

- 1 Clinitek Status+ Analyzer
- 2 Power supply adaptor and AC power cord (Figure shows US version)
- 3 Test table with calibration bar
- 4 Test table insert
- 5 Paper roll

Page 6 of 93

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1. Place the analyzer on a level work surface where the temperature and humidity are fairly constant.



### CAUTION

The best temperature for using the analyzer is between 22° and  $26^{\circ}C$  (72° and 79°F). Do not place the analyzer outdoors or near

windows, ovens, hot plates, or radiators.

2. Connect the appropriate end of the power cord into the power inlet socket located on the back of the analyzer (see *Figure 1-2*).



Figure 1-2: Assembling the Clinitek Status+ Analyzer

- 1 Serial port
- 2 Power cord

Connect the other end of the power cord into an AC electrical wall outlet.



### CAUTION

Use only the power supply adapter included with the analyzer. A different power supply adapter might damage the analyzer.

## Page 7 of 93

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### Inserting the Batteries (optional)

To power the Clinitek Status+ Analyzer by batteries (optional), perform the following steps:

- 1. Place the analyzer on its side.
- 2. Remove the battery cover on the bottom of the analyzer by pressing down on the tab and pulling out the cover.
- 3. Place 6 new alkaline AA-size batteries into the battery compartment.
- Place the battery cover back on the compartment and turn the analyzer back on its base.



### CAUTION

Do not use batteries in the analyzer, if you attach the analyzer to a CLINITEK Status connector. Leaving the batteries in the battery

compartment may corrode the batteries.

### Inserting the Test Table and Test Table Insert

To insert the test table and test table insert, perform the following steps:

- 1. Insert the test table into the analyzer by holding it by the end opposite the white calibration bar and with the white bar facing up.
- 2. Push the test table into the analyzer, pushing it in just over halfway.



### CAUTION

Do not push the test table fully into the analyzer. The test table may become jammed and prevent the use of the analyzer.

Do not touch the white calibration bar on the test table. Damage

to the calibration bar could affect the test results.

3. Place the test table insert into the test table (see *Figure 1-3*).

**Note** The test table insert adapts for use with a Siemens urinalysis strip or an hCG cassette. Use one side for a strip test and the other side for a cassette test.

### Figure 1-3: The Test Table and Test Table Insert



### Loading the Printer Paper

The analyzer uses ordinary thermal paper as provided, or label stock. For more information about ordering supplies, see *Appendix C, Orderable Supplies*. Please contact the ATC for supplies until they can be set up with Logistics.

To load the printer paper or label roll, perform the following steps:

- 1. With the back of the analyzer facing you, open the printer cover by pulling up on the tab.
- 2. Open the paper roll compartment cover by pressing down on its tab and pulling out the cover.
- 3. Lift the paper holding arm into the open, upright position.

### Page 9 of 93

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- Place the new paper roll into the printer paper compartment with the paper unrolling from underneath and toward the compartment wall.
- 5. Feed the paper up along the wall and through the printer until you have approximately 10 cm (or 4 inches) of paper through the printer.
- 6. Feed the edge of the paper through the printer cover.
- 7. Push the paper holding arm down in the closed position (see *Figure 1-4*).
- 8. Close the paper roll and printer covers by clicking them into position.

**Note** By default, the analyzer automatically prints the test results. To disable the automatic print function, see Section 7, *System Configuration, Changing the System Settings*, page 107.



- 1 Paper holding arm
- 2 Printer paper

## Powering On/Off

If you power on the analyzer for the first time, the Start Up Wizard prompts you through a set-up procedure. Also, you must enter a startup code when you use the analyzer for the first time.

To power on the analyzer, perform the following steps:

1. Press the on/off button on the front of the analyzer.

The analyzer runs a diagnostic test each time you power on the analyzer.

If this is the first time you powered on the analyzer, the Start Up Wizard displays and prompts you to select a region.

2. Select a region.

Note If your region does not display in the list, select Other. The

Authorization Code screen displays.

3. For the start up code, enter 2664.

**Note** If you enter an incorrect start-up code, the Incorrect Authorization Code error message displays. Select **No** to return to the **Authorization Code** screen and enter **2664**.

To power off the analyzer, perform the following steps:

1. Before you power off the analyzer, always ensure that no strip or cassette is on the test table and that the table and insert are clean.

2. Press the on/off button for at least 2 seconds.

The analyzer pulls in the test table. If no strip or cassette is on the test table, the test table door closes and the analyzer powers off.

If a strip or cassette is still on the test table, the analyzer pushes out the test table and powers off. The test table remains out.

To pull the test table into the analyzer, power on the analyzer, remove the strip or cassette on the test table, and then power off the analyzer.



### CAUTION

Do not push the test table fully into the analyzer. The test table might become jammed and prevent the use of the analyzer.

## **Hardware Overview**

The CLINITEK Status+ analyzer consists of the following hardware components:

- Display
- Test table
- Printer
- Connections and power
- Memory card slot

### Display

You interact with the CLINITEK Status+ analyzer through an integrated touch screen display. The touch screen displays messages, options, and requests for information. You respond by selecting a button or an area on the screen (see *Figure 1-5*).



### CAUTION

Do not use anything hard or pointed on the touch screen. It might

damage the screen.

DO NOT USE A PEN OR PENCIL. A touch screen stylus will be provided by the ATC.

**Note** If you run a CLINITEK Status+ analyzer with a CLINITEK Status connector, you can use a handheld bar-code reader to enter information into the analyzer.

Figure 1-5: Touch Screen Display



### **Test Table**

All testing takes place on the test table.

1. Place the strips on the test table insert.

**Note** If you use a urinalysis strip that has 4 or fewer test pads, such as Uristix 4 reagent strips, use a short test table insert. You need to order the short test table insert separately from the analyzer (see *Appendix C*, *Orderable Supplies*).

- 2. The analyzer pulls in the test table partially for calibration and then pulls in the test table completely to read and test the strip.
- 3. When the test finishes, the test results display on the screen.

4. You can transfer the test results to a computer by using the RS-232 serial port on the back of the analyzer. Results will be transmitted via the Connect base.

If you run a CLINITEK Status+ analyzer with a CLINITEK Status connector, you can transfer the test results through a wireless or wired Ethernet connection.

### Printer

An internal thermal printer prints the test results.

### **Connections and Power**

Connect the analyzer into an electrical outlet to use on a benchtop, or use batteries so you can freely move the analyzer from one testing site to another.

### **Memory Card Slot**

The memory stores the analyzer software, operating parameters, settings you select, up to 950 patient test results, and 200 authorized operators. The information is stored in the memory, whether the analyzer is powered on or off.

You can update the software by inserting a memory card into the slot under the printer cover (see *Figure 1-6*). The ATC will either walk you through the update or come to the clinic to do the update.



### Figure 1-6: Memory Card Slot

### 1 Memory Card Slot

### Page 15 of 93

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Note DO NOT USE A MEMORY STICK SINCE ENCRYPTED MEMORY STICKS WILL NOT WORK ON THIS SYSTEM. Only encrypted memory sticks are permitted on VA equipment.

## **Software Overview**

The CLINITEK Status+ analyzer user interface consists of a touch screen with an onscreen alphanumeric keyboard.

### **Touch Screen**

Use the **Select Ready** screen to configure the analyzer, run tests, recall results, and navigate to any point in the software (see *Figure 1-7*).

The **Select Ready** screen contains the following elements:

- Title bar Contains the current screen name, date, and time.
- Selection area Includes Instrument Set Up, Recall Results, Cassette Test, and Strip Test.

For a complete list of icons with their descriptions, see Appendix E, Symbols.

**Note** Depending on the screen that displays, when the analyzer is idle for a period of time, the analyzer returns to the **Select Ready** screen.





1 Title bar

Page 16 of 93

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- 2 Recall Results
- 3 Strip Test
- 4 Cassette Test
- 5 Instrument Set Up

Each subsequent screen can display an icon in the upper left corner to indicate an analyzer mode or action (see *Figure 1-8*). For example, the battery icon indicates that the analyzer is powered by batteries. A screen also can display buttons, instructions, alert messages, and error messages.



- 1 Help
- 2 Selection Area
- 3 Button
- 4 Instructions
- 5 Icon

Tap the screen lightly in a selection area or button to select an option or button, or to navigate in a list of items.



### CAUTION

Do not use anything hard or pointed on the touch screen. It might

damage the screen.

DO NOT USE A PEN OR PENCIL. A touch screen stylus will be provided by the ATC.

The CLINITEK Status+ analyzer provides several screen elements: option, area, button, arrow, and double arrows.

Screen Element	Example	Description	5
Option		Round option buttons display on screens where you select an option. The option button with a filled circle is the current selection. For example, <b>Sound on, Sound off</b> , and <b>Key clicks only</b> are instrument setup options. To change your selection, select an option button with an unfilled circle. The newly selected circle (round option button) is highlighted. In the example, the <b>Sound on</b> option is selected.	20
Selection Area	B	Selection areas enclosed in boxes on the screen indicate functions that you can select. Select a boxed area to activate that function. For example, <b>Strip Test</b> . An area varies in size. For example, the boxes on the <b>Select Ready</b> screen are large areas.	

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Screen Element	Example	Description	
Button		Several buttons display at the bottom of the screens, which include <b>Select</b> and <b>Done</b> .	Introducti
		To navigate the screens, the analyzer displays left and right arrow buttons. To move to the previous screen, select <b>Previous</b> (left arrow). To move to the next screen, select <b>Next</b> (right arrow).	
		Jucour	I

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Screen Element	Example	Description	
Arrow		Select the up and down arrows on the right side of the screen to scroll through the items in a list and highlight an item on the left side of the screen. Select the <b>Select</b> button to confirm your selection and move to the next screen. When an arrow is highlighted, you can use it to scroll. When an arrow is dimmed, you are viewing the first item or last item in the list, and cannot scroll beyond that page. <b>Note</b> When an item in a list displays a highlighted bar, you can select that item.	9
Double Arrows		When double arrows display on the screen, you select these arrows to move to the top or bottom of the page. When a double arrow is highlighted, you can use it to scroll. When a double arrow is dimmed, you are viewing the first page or last page of the list, and cannot move beyond that page.	

### **Entering Information**

Some options require you to enter information. For example, the analyzer prompts you to enter an Operator ID, Patient Name, and Patient ID. Depending on how you set up your analyzer, an alphabetic or numeric keyboard displays on the screen.

To switch between the onscreen keyboards, follow these steps:

- To display the numeric keyboard, select **123**.
- To display the alphabetic keyboard, select ABC.

To specify which onscreen keyboard you want to display by default, use the **Keypad Priority** option, as explained in Section 7, *System Configuration, Custom Set Up*, page 96.

**Note** By default, some screens display an alphabetic or numeric keyboard, and override the keyboard default you specify.

If you run a CLINITEK Status+ analyzer with a CLINITEK Status connector, you can connect a handheld bar-code reader to the analyzer, and scan information for some values.

You also can connect a keyboard to the analyzer, where the analyzer recognizes only the keyboard input equivalent to the alphabetic and numeric characters on the onscreen keyboards. For example, to enter a name, number, or birth date, select the alphabetic or numeric characters on the keyboard. Those selections display in the data entry box.

**Note** When you switch between the alphabetic and numeric onscreen keyboards, the analyzer retains the values in the data entry box on both keyboard screens.

For most data entry boxes, you can enter a minimum of 6 and a maximum of 63 characters, depending on the type of entry. An audible tone sounds when you exceed the maximum number of characters.

After you finish entering the information, select **Enter** (from either onscreen keyboard).

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# 2 **Operations**

You can perform a Quick Test or a Full Test with a urinalysis strip or an hCG cassette. Place a strip or a cassette on the test table. The analyzer calibrates and begins testing.

**Note** You can configure the Quick Test or Full Test, as explained in Section 7, *System Configuration, Setting up Operator and Patient Information*, page 95.

With a Full Test, enter the Operator Name, and Patient Name, and Patient ID from the analyzer display. If you run a CLINITEK Status+ analyzer with a CLINITEK Status connector, enter the information from a bar-code reader.

Note You cannot cancel a test before the analyzer finishes the test. View and

print the test results that display on the screen.

### **Viewing Sample Interference Notes**

Sample interference notes inform you about the test results that can be affected by components detected in the urine sample. By default, sample interference notes display and print. To set up sample interference notes, see Section 7, *System Configuration, Setting up Sample Interference Notes*, page 119.

Depending on the strip and sample, sample interference notes could include the following statements:

- High SG may cause falsely lowered GLU results.
- Elevated GLU may cause falsely lowered LEU results.
- Visibly bloody urine may cause falsely elevated PRO results.
- High SG may cause falsely lowered LEU results.
- High pH may cause falsely elevated PRO results.

## Performing a Urinalysis Strip Full Test

With a urinalysis strip full test, you can enter an Operator Name, Patient Name, and Patient ID. When you place the strip on the test table, the analyzer calibrates and starts to perform the analysis. Perform the following procedures to test a strip.



### BIOHAZARD

Wear personal protective equipment. Use universal precautions. For recommended precautions when you work with biohazardous materials, see *Appendix A*, *Safety Information*.

### **Entering Operator and Patient Information**

Enter or select an operator ID (use ID assigned by ancillary testing coordinator), patient name, and patient ID.

To enter operator and patient information, perform the following steps:

- 1. On the Select Ready screen, select Strip Test.
- On the Operator Name screen, to enter the operator name OR YOUR POINT OF CARE ID NUMBER, perform the following steps:
  - Only if configured, if you are the last operator, select Last Operator.
  - If you are a new operator:
  - a. Select Enter New Operator.
  - b. Enter your name (a maximum of 13 characters) on the Enter Operator Name screen. Or enter you POC ID number
  - c. Select Enter.

For more information about how to use the keyboard, see Section 1, *Introduction*.

You also can enter the Operator Name or ID from a computer keyboard, or if you run the analyzer with the CLINITEK Status connector, scan it from a bar-coded label using the handheld barcode reader.

3. On the **Patient Information** screen, to enter the patient information, perform the following steps:

Page 24 of 93

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- To enter a previous patient:
- a. Select Recall Patient.
- b. Scroll through the patient name list.

The most recently performed test displays at the top of the list.

c. Highlight the patient name and select **Select**.

**Note** The patient name list displays up to 200 patients in chronological order. When the list reaches 200 patients, the analyzer deletes the oldest name from the list. You cannot retrieve the deleted name.

- To enter a new patient:
- a. Select Enter New Patient.
- b. Enter the patient name (maximum of 20 characters) on the Enter Patient Name screen.
- c. Select Enter.

You also can enter the patient name from a computer keyboard.

If you run a CLINITEK Status+ analyzer with a CLINITEK Status connector, you can scan the patient name from a bar-coded label using the handheld bar-code reader.

 Enter the patient ID (maximum of 13 characters) on the Enter Patient ID screen, and select Enter. YOU MUST ENTER THE FULL SOCIAL SECURITY NUMBER WITH NO DASHES.

### **Preparing a Urinalysis Strip Full Test**

Before you run a urinalysis strip Full Test, prepare the strip and the analyzer.

To prepare a urinalysis strip Full Test, perform the following steps:

**Note** If you use a reagent strip that has 4 or fewer test pads, such as Uristix 4 reagent strips, use a short test table insert. You need to order the short test table insert separately from the analyzer (see *Appendix C, Orderable Supplies*).

- If you enabled lot information with Instrument Set Up, enter the strip lot number and expiration date, as follows; otherwise, go to step 2. This will be activated during setup.
  - To use the last strip number and begin the test, select Use Last Lot.
  - To enter new strip data, select Enter new lot and expiration. Enter

### Page 25 of 93

the strip lot number and select **Enter**. Use the arrow keys to enter the strip expiration date and select **Enter**.

- 2. Make sure the reagent strip holder faces upward in the test table insert.
- 3. Have the urinalysis strip and paper towel ready.

### **Running a Urinalysis Strip Full Test**

When you run a urinalysis strip Full Test, the analyzer calibrates and then analyzes the strip.

To run a urinalysis strip Full Test, perform the following steps:

**Note** After you select **START**, you have 8 seconds to dip the reagent strip in the urine sample and place the strip in the test table channel.

1. Select START.

The **Prepare Test** screen displays steps on how to perform the test. A timer displays the amount of time remaining to complete the task.

Note To display the strip testing steps on the screen, select Help.

2. Dip the reagent strip in the urine sample and wet all the pads.

The ID band allows auto-strip identification to ensure that the analyzer reports the correct strip configuration when you perform a urinalysis test.

**Note** Be sure to use the proper dipping technique.

- 3. Immediately remove the strip from the urine.
- 4. Drag the edge of the strip against the side of the sample container as you remove it.
- 5. Blot the edge of the strip on a paper towel to remove the excess urine.
- 6. Place the reagent strip in the test table channel with the test pads facing up.
- 7. Slide or push the strip to the end of the channel. Do not touch the pads on the strip.

After the 8-second countdown ends, the analyzer pulls in the test table and strip, and then calibrates.

Note Each time you run a test, the analyzer calibrates.

Page 26 of 93

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### CAUTION

Do not push or pull the test table because the calibration might fail or the movement might cause table positioning errors. Do not move or bump the table while the analyzer calibrates. The

calibration might fail.

After the calibration finishes, the analyzer starts analyzing the strip, and the **Analyzing** screen displays.

### Selecting the Appearance of the Urine Sample

While the analyzer analyzes the strip, a **Select Appearance** screen displays.

To select the appearance of the urine sample, perform the following steps:

- 1. Visually observe the urine sample and determine the appropriate color and clarity.
- 2. Select the urine sample color and clarity:
  - If the urine sample is yellow and clear, select Yellow and Clear.
  - If the urine sample is not yellow and clear, select **Other**, and select a color. Next, select a **Clarity** option and select **Next**.

A time indicator on the **Select Appearance** screen counts down the time remaining in the analysis of the strip. The analyzer displays either of the following screens:

- Analyzing if the strip is still being analyzed.
- **Results** if analyzing the strip is complete.

A timer counts down the time remaining in the strip analysis process. After the countdown ends, the analyzer displays the first page of the test results on the **Results** screen.

The results display on the screen for 2 minutes. Then, the display returns to the **Select Ready** screen.

The test table and strip move out of the analyzer.

**Note** If you set up the analyzer to print the test results automatically, the **Printing** screen displays until the printout finishes. If you set up the analyzer with a connection to a PC, the analyzer sends the test results

Page 27 of 93

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to the PC.

### Viewing the Urinalysis Strip Full Test Results

The first page of test results display on the **Results** screen. You can view additional pages of the test results and sample interference notes (if configured) on the **Results** screen.

To view additional pages of the urinalysis strip Full Test results and the sample interference notes, perform the following steps:

1. Select **More** to view the remaining test results.

If you use reagent strips with an ID band, you can view sample interference notes for this test.

 Select Notes to view the sample interference notes, if the analyzer generated them for the test.

The **Interference notes** screen displays up to 5 sample interference notes.

**Note** If you disable the **Sample Interference Notes** setting in Instrument Set Up, or the analyzer does not generate sample interference notes, the **Notes** button does not display. If you run a test with this feature disabled, the analyzer does not generate notes at the time of the actual test. If you enable the **Sample Interference Notes** setting, and then recall the test results, the analyzer generates notes for this patient test.

- 3. Select the up and down arrows to scroll through the notes.
- 4. Select **Done** to return to the main **Results** screen.

### **Printing the Urinalysis Strip Full Test Results**

Print the urinalysis strip Full Test results manually or automatically, or send the results to a computer.

To print the urinalysis strip Full Test results manually, select **Print** to print the test results.

The test results printout includes the following information:

- Patient name and Patient ID
- Urinalysis strip type
- Lot number, if configured

### Page 28 of 93

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- Lot expiration date, if configured
- Test date
- Test time
- Operator
- Test number
- Color
- Clarity
- Results (If the results are positive, an asterisk (\*) displays next to the results, only if you selected Mark Positive Results in Instrument Set Up.)
  - Sample interference notes (if enabled in Instrument Set Up)

For instructions on how to set up the analyzer so that you can print the results automatically or send the results to a computer, see Section 7, *System Configuration, Changing the Connectivity Settings*, page 110.

## Completing the Urinalysis Strip Full Test

Complete the testing for one strip or continue testing one strip at a time, until you finish testing all the strips you want to analyze.

To complete the urinalysis strip Full Test, perform the following steps:

- 1. Remove the used urinalysis strip from the test table, and dispose of it according to your standard laboratory procedures.
- 2. Wipe the table insert, if necessary (see Section 4, *Maintenance, Weekly Cleaning of the Test Table and Test Table Insert*, page 57).
- 3. Report the results to a laboratory supervisor or physician.
- 4. Select **Done** to complete the test and return to the **Select Ready** screen.
- 5. Select **Done** to return the **Strip Test Prepare** screen.

You are ready to start the next test. If you completed your testing, select **Back** to return to the **Select** screen.

# 3 Calibration & QC

This chapter covers calibration and quality control (QC).

## **Calibration Overview**

The CLINITEK Status+ analyzer calibrates automatically before each measurement. The analyzer calibrates by reading the white calibration bar at the appropriate wavelengths to ensure accurate test results (see *Figure 3-1*).

### Figure 3-1: Calibration Bar

The calibration bar was tested on a reference spectrophotometer. By calibrating the reference spectrophotometer with the National Institute of Standards and Technology (NIST) traceable calibrators, Siemens can show traceability to NIST.

**Note** Keep the calibration bar clean to ensure accurate results. For details about cleaning the calibration bar, see the next section on *Cleaning the White Calibration Bar*.

## **Cleaning the White Calibration Bar**

For the CLINITEK Status+ analyzer to perform as intended and provide reliable test results, the white calibration bar on the test table needs to be clean and not discolored. With normal use, the white calibration bar should not become dirty or discolored.



### BIOHAZARD

Wear personal protective equipment. Use universal precautions. For recommended precautions when you work with biohazardous materials, see *Appendix A, Safety Information*. To clean the white calibration bar, perform the following steps:

- 1. Remove the insert from the test table.
- 2. Remove the test table by pulling it slowly out of the analyzer.
- 3. Drain the drip tray, if necessary.
- 4. Examine the white calibration bar on the test table for dirt or discoloration.



### CAUTION

Do not touch the calibration bar while you examine it or after you clean it. Your fingerprints or lint on the bar could cause unreliable test results. When you examine the white calibration bar, do it

carefully under good lighting.

- 5. If the white calibration bar appears clean and unmarked, perform the following steps:
  - a. Place the test table into the analyzer by holding the table at the end opposite the white calibration bar, with the white calibration bar facing upward.
  - b. Push the test table firmly but slowly, just over halfway into the analyzer.



### CAUTION

Do not push the test table fully into the analyzer. The test table

might jam and prevent you from using the analyzer.

c. Place the test table insert.

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- 1. If the white calibration bar is dirty or discolored, perform the following steps:
  - a. Wet a new cotton-tipped stick or lint-free cloth with distilled water and gently wipe and clean the calibration bar.



### CAUTION

Do not scratch the white calibration bar. Marks and stains could cause inaccurate test results, especially for hCG tests. Severe marks could cause errors.

Do not use solvents of any kind to clean the bar. They could destroy

the bar.

- b. Allow the calibration bar to air dry.
- C. Inspect the surface for dust, foreign material, scratches, or scuffs. If you cannot completely clean the calibration bar or if the bar still has marks, order a new test table. Contact your Siemens representative.
- d. Place the test table, as described in step 5.

## **Quality Control Overview**

Quality Control (QC) testing helps ensure that the urinalysis strips and cassettes are reacting correctly and that the analyzer is accurately reading them. QC also helps detect errors that result from user techniques.

QC should be performed in accordance with local, state, and federal guidelines.

This chapter provides only a general overview of quality control testing. To run quality control, follow the instructions in the quality control instructions for use product insert.

If you run a CLINITEK Status+ analyzer with a CLINITEK Status connector, you can configure QC testing with reminder prompts and the lockout feature. For more information about the QC configuration settings, see the *CLINITEK Status Connect System Operator's Guide.* 

## **Urinalysis Strip Quality Control Testing**

Urinalysis controls in use for point of care are the Alta Diagnostic controls consisting of a positive and a negative. Control acceptable values are lot specific and will be found on the data sheet in the box.

Test negative and positive controls each day of use. Water should NOT be used as a negative control. Each laboratory should establish its own goals for adequate standards of performance. For information about control manufacturers, contact the Siemens Customer Service Department.

Compare QC results to the QC manufacturer's acceptable results list. If the QC results are not acceptable, do not test the patient samples until you solve the problem. Repeat QC tests until you have acceptable results.

For expected values for each analyte, see the quality control instructions for use product insert.

### **Troubleshooting quality control Failure:**

- 1. Make sure the controls and strips are at room temperature.
- 2. Verify control and strips are not expired.
- 3. If either is expired replace it with a new set or vial.
- 4. Repeat the control.
- 5. It the control is still out check to see if the calibration strip needs to be cleaned per the procedure under maintenance.
- 6. If the calibration strip is damaged a new calibration strip will need to be purchased. If that is the case urines cannot be run on the instrument and will have to be done using alternate method such a reading the strips visually.
- 7. If the calibration strip is in good shape, try a different vial of strips. It is possible the strips in the open vial may have been open too long or were handled with gloves that were not dry. If the new vial passes QC discard the other vial as faulty.
- 8. If you are unable to determine a cause for the failure contact the ATC at ext 7232.
- 9. All steps will need to be documented on a action log supplied by the ATC. You must be sure to document if the instrument is usable at the

### Page 33 of 93

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end of troubleshooting.

10. For more troubleshooting information, see Section 5, *Troubleshooting*, or contact your local technical support provider for assistance.

### Maintenance

Clean the test table and table insert weekly or more frequently, if necessary, to maintain the analyzer for the following reasons:

- Ensure that the analyzer operates properly
- Provide accurate test results
- Prevent contamination
- Avoid bacterial growth

Siemens recommends that you check the calibration bar for cleanliness weekly, and when you clean the test table. Also, check the calibration bar for cleanliness if you remove a strip from inside the analyzer. Clean the calibration bar, only if needed.



Calibration & QC

### BIOHAZARD

Wear personal protective equipment. Use universal precautions. For recommended precautions when you work with biohazardous materials, see *Appendix A*, *Safety Information*.

## Weekly Cleaning of the Test Table and Test Table Insert

Clean the test table and test table insert on a weekly basis or more frequently if necessary, to ensure test result accuracy and prevent contamination and bacterial growth.

To clean the test table and test table insert, perform the following steps:

- 1. Remove the test table by pulling it slowly out of the analyzer.
- 2. Lift the table insert to remove it from the test table.
- 3. Drain the drip tray, if necessary.
- 4. Wet a cotton-tipped stick with water and thoroughly scrub the test table and table insert, except for the white calibration bar.

5. Rinse both sides of the table insert and test table under running water. Page 34 of 93

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Dry the test table thoroughly (except for the white calibration bar) with a soft cloth or lint-free tissue.



### CAUTION

Do not to scratch the white calibration bar. Marks and stains could cause inaccurate test results, especially for hCG tests. Severe marks

can cause errors.

7. Examine the white calibration bar on the test table for dirt or discoloration.



### CAUTION

Do not touch the calibration bar while you examine it or after you clean it. Your fingerprints or lint on the bar could cause unreliable test results. When you examine the white calibration bar, do it

carefully under good lighting.

- If the white calibration bar appears clean and unmarked, go to step 9.
- If the bar appears dirty or discolored, clean the calibration bar, as described in *Cleaning the White Calibration Bar*, page 58.
- 8. Insert the test table, pushing it in more than halfway into the analyzer.



### CAUTION

Do not push the test table fully into the analyzer. The test table

might jam and prevent you from using the analyzer.

9. Insert the table insert.

## **Cleaning the White Calibration Bar**

For the CLINITEK Status+ analyzer to perform as intended and to provide reliable test results, the white calibration bar on the test table needs to be clean and not discolored.Siemens recommends that you check the calibration bar for cleanliness weekly, and when you clean the test table. Also, check the calibration bar for cleanliness if you remove a strip from inside the analyzer. Clean the calibration bar, only if needed.

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Wear personal protective equipment. Use universal precautions. For recommended precautions when you work with biohazardous materials, see *Appendix A, Safety Information*.

To clean the white calibration bar, perform the following steps:

- 1. Remove the insert from the test table.
- 2. Remove the test table by pulling it slowly out of the analyzer.
- 3. Drain the drip tray, if necessary.
- 4. Examine the white calibration bar on the test table for dirt or discoloration.



## CAUTION

Do not touch the calibration bar while you examine it or after you clean it. Your fingerprints or lint on the bar could cause unreliable test results. Examine the white calibration bar carefully under

good lighting.

- 5. If the white calibration bar appears clean and unmarked, perform the following steps:
  - a. Re-insert the test table into the analyzer by holding the table at the end opposite the white calibration bar, with the white calibration bar facing upward.
  - b. Push the test table firmly but slowly, just over halfway into the analyzer.



# CAUTION

Do not push the test table fully into the analyzer. The test table

might jam and prevent you from using the analyzer.

- c. Insert the test table insert.
- 6. If the white calibration bar appears dirty or discolored, perform the following steps:
  - a. Wet a new cotton-tipped stick or lint-free cloth with distilled water and gently wipe and clean the calibration bar.

## Page 36 of 93

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# CAUTION

Do not scratch the white calibration bar. Marks and stains could cause inaccurate test results, especially for hCG tests. Severe marks can cause errors.

Do not use solvents of any kind to clean the calibration bar. They

could destroy the bar.

- b. Allow the calibration bar to air dry.
- c. Inspect the surface for dust, foreign material, scratches, or scuffs. If you cannot completely clean the calibration bar or if the bar has scratches, order a new test table. Contact your Siemens representative.
- d. Insert the test table and table insert, as described in step 5.

# **Disinfecting the Test Table and Table Insert**

Disinfect the test table and the test table insert as necessary, following your lab guidelines. Use a recommended disinfection solution for the following reasons:

- Prevent contamination
- Prevent bacterial growth
- Avoid damage to the test table and insert



#### CAUTION

Do not autoclave the test table or the insert because it would destroy

them.

To disinfect the test table and the table insert, perform the following steps:

- 1. Prepare one of the following solutions in a tall, narrow container (such as an empty Multistix<sup>®</sup> bottle) to a depth of about 10 cm (or 4 inches):
  - Household Bleach (5% sodium hypochlorite) use as full strength or dilute with water to as much as 1:20 (mix 5 mL bleach with 95 mL water for a total of 100 mL).
  - Isopropyl Alcohol (70% to 85%) use as full strength.

# CAUTION of 93

Any solutions other than the ones mentioned might damage the test table and the table insert.

- 2. Remove the table insert from the test table.
- 3. Remove the test table by pulling it slowly out of the analyzer.
- 4. Drain the drip tray, if necessary.
- 5. Place the table insert and test table into the solution, with the white calibration bar on the test table above the liquid level.



## CAUTION

Be sure the cleaning solution does not come in contact with the white calibration bar. Cleaning solution can discolor or damage

the calibration bar.

6. Soak the test table and the table insert for a minimum of 2 minutes and a maximum of 10 minutes.



## CAUTION

Do not soak the test table and the table insert longer than 10 minutes. You

could damage them.

7. Rinse the test table and the table insert thoroughly with water.



## CAUTION

Rinse away all the solution residue, as any remaining solution might

affect the reagent pad chemistries.

- 8. Dry the test table and the table insert thoroughly with a soft cloth, except for the white calibration bar.
- 9. Insert the test table and the table insert in the analyzer, as described in *Weekly Cleaning of the Test Table and Test Table Insert*, page 57.

# **Cleaning the Outside of the Analyzer**

Always keep the outside of the CLINITEK Status+ analyzer clean and free of dust.

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#### BIOHAZARD

Wear personal protective equipment. Use universal precautions. For recommended precautions when you work with biohazardous materials, see *Appendix A, Safety Information*.

To clean the outside of the analyzer, perform the following steps:

- 1. Power off the analyzer by pressing the on/off button for 2 seconds.
- 2. Wipe the outside (including the display) with a damp (not wet) cloth and a mild detergent.



#### CAUTION

Do not use any type of solvent, oil, grease, silicone spray, or lubrication on the analyzer.

Do not spray glass cleaner directly onto the screen.

Do not use laboratory wipes, such as Kimwipes, because they might scratch the screen.

Prevent liquid from entering inside the printer compartment. You

could damage the analyzer or the printer.

- 3. Disinfect the display with the same solution you use for the test table, as described in *Disinfecting the Test Table and Table Insert*, page 60.
  - a. Wipe the solution on the display and let it remain for 10 minutes.
  - b. Wipe the display with a clean cloth dampened with water.
  - c. Dry the display with a clean cloth.

# **Changing the Batteries**

The CLINITEK Status+ analyzer allows you to run approximately 100 tests from a set of batteries. To achieve this, the Power Save feature is always activated when you power the analyzer by batteries.

**Note** The test result printout might be lighter when you use batteries to power the analyzer.

If you do not use the analyzer in 3 minutes when it is battery-powered, it automatically powers off.

When you power the analyzer by batteries, a battery power icon displays

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near the title bar. The icon contains up to 4 vertical bars to indicate the amount of power left in the batteries.

When the batteries run low, the testing continues, but a Low batterymessage displays on the **Select Ready** screen.

**Note** If you do not change the batteries and the power level becomes too low to power the analyzer, a Critical low battery message displays. You cannot run a test until you replace the batteries.



## CAUTION

Do not operate the analyzer with batteries, if you send data through a serial port, or to an LIS. The data might become

corrupted.

The CLINITEK Status+ analyzer uses 6 AA-size batteries.



#### CAUTION

Do not use batteries in the analyzer, if you run a CLINITEK Status+ analyzer with a CLINITEK Status connector. Be sure to remove the batteries because they could leak and damage

the analyzer and the connector.

To change the batteries, perform the following steps:

- 1. Remove the test table by pulling it slowly out of the analyzer.
- 2. Drain the drip tray, if necessary.
- 3. Place the analyzer on its side.
- 4. Remove the battery cover on the bottom of the analyzer:
  - a. Press down on the tab.
  - b. Pull out the battery cover.
- 5. Replace the batteries:
  - a. Remove the current batteries.
  - b. Place 6 new AA-size batteries into the analyzer.
- 6. Insert the battery cover.
- 7. Turn the analyzer back onto its base.

#### Page 40 of 93

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8. Insert the test table and table insert.

# 4 Troubleshooting

If an operational or analyzer problem occurs, in most cases, an error number with an explanation of the problem displays on the **Select Ready** screen. If a problem persists, write down the error number that displays and contact your local technical support provider for assistance.

Local support will start with the ATC at ext 7232. If the ATC is unable to resolve the issue you will need to call a support line. The ATC will give you the number and will call you through Teams while you talk to the technical support. Since the ATC is not on site they will not be able to do what technical support asks to be done.

If you think a Siemens urinalysis strip or an hCG cassette is causing the problem, see its product insert for troubleshooting information.

After an error occurs, if you power off the analyzer, be sure to retest the sample that was in progress. When you power on the analyzer, restart the test.

# **Error Messages**

Error messages display to help you when the CLINITEK Status+ analyzer detects an issue that needs your attention. The type of error message depends on the importance of the problem and the mode in which you use the analyzer. The error messages include the following types:

- Errors that disable the analyzer
- Errors that require correction
- Advisory error messages
- Results alerts

**Note** For a list of errors and advisory messages and how to correct them, see *Errors and Advisory Messages*, .

## **Errors That Require Correction**

Certain errors must be corrected to enable testing. These errors do not prevent you from using other analyzer functions. An error message displays with a corrective action. Perform the corrective action to enable testing.

# **Advisory Error Messages**

An advisory error message is of less importance, and displays on the Select Ready screen the next time the Select Ready screen displays. When you perform the corrective action, the analyzer removes the message from the screen.

If more than one advisory error occurs, when you clear the first advisory error message, the analyzer displays the next advisory error message.

# **Results Alert**

-roubleshooting

If an error occurs during testing and the test cannot continue because of the error, a message displays on the **Results Alert** screen. The results alert error message provides details about the error and shows that the test was cancelled. The analyzer pushes out the test table so that you can remove the urinalysis strip or cassette.

# **Errors and Advisory Messages**

The following table contains the error codes and descriptions, with their probable causes and corrective actions.

Note If you cannot troubleshoot an error, call local technical support provider or distributor, as described in Appendix B, Support Information.

For errors that say call techinacl support the ATC will advise the same. However the ATC should be notified in case they need to come to the clinic based on what the technical support tells you. Reasons for them to come include that they are sending replacement parts that need install.

Error Code	Error Message	Action
E01	Low battery power	The battery level is too low to power the analyzer.
		Replace the batteries by using any of
		the following instructions:
		On the screen, select Error Report to
		view the instructions.
		See Section 4, Maintenance,
		Changing the Batteries, page 63.

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	-02	Feilure of	Change the Power Save setting to extend the battery life. For details, see Section 7, System Configuration, Changing the System Settings, page 107.	
	:02	calibration data	provider or distributor.	. C
	E03, E04, E05, E06, E07, E08, E21, E22, E90, E91, E92 or E93	Failure of computer software	Contact your local technical support provider or distributor.	ed
B	10 or 48	Loss of test results	<ol> <li>Power off the analyzer by pressing the on/off button for 2 seconds.</li> <li>Power on the analyzer by pressing the on/off button.</li> <li>Repeat the test.</li> </ol>	
	Error	Error Message	Action	
	Code			
	E11	Failure of test table	<ul> <li>The test table is positioned improperly.</li> <li>1. Make sure that the test table is in place.</li> <li>2. Move the test table in or out of the analyzer slightly to reposition the test table.</li> </ul>	

Troubleshooting

		3.	If the error remains, with the analyzer powered on, disconnect the power cord from the back of the analyzer and connect it back in. Press the on/ off button to power on the analyzer.	
		4.	If the error remains with the test table in place, contact your local technical support provider or distributor. See <i>Appendix B</i> , <i>Support Information</i> , <i>When to</i> <i>Contact Technical Support</i> , page 131.	6
E12	Failure of LED	An Cor pro	LED light source failed. ntact your local technical support ovider or distributor.	
E20	Failure of clock	Cor pro	ntact your local technical support ovider or distributor.	

Troubleshooting

Error	Error Message	Action
Code		
E23	Low battery power	<ul> <li>When the battery level becomes too low to power the analyzer, error code E01 displays.</li> <li>Replace the batteries by using any of the following instructions: <ul> <li>On the screen, select Error Report to view the instructions.</li> <li>See Section 4, Maintenance, Changing the Batteries, page 63.</li> </ul> </li> <li>Change the Power Save setting to extend the battery life. For details, see Section 7, System Configuration, Changing the System Settings, page 107.</li> </ul>
E24	No printer paper	<ul> <li>page 107.</li> <li>Replace the printer paper by using any of the following instructions:</li> <li>On the screen, select Error Report to view the instructions.</li> <li>Lift the printer paper compartment cover to view the instructions inside.</li> <li>See Section 1, Introduction, Loading the Printer Paper, page 14</li> </ul>
525	Failure of	page 14.
E25,	Failure of	Clean the calibration bar.
E64, or E65	automatic calibration	If the error remains after cleaning, order a new test table. Contact your local technical support provider or distributor.

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Troubleshooting

Error Code	Error Message	Action
E27	Setup failure	<ol> <li>Power off the analyzer by pressing the on/off button for 2 seconds.</li> </ol>
		2. Power on the analyzer by pressing the on/off button.
E28	Printer error	<ol> <li>Lift the printer cover.</li> <li>Push the paper holding arm back into position.</li> </ol>
		For the location of the paper holding arm, see Section 1, <i>Introduction, Loading the</i> <i>Printer Paper</i> , page 14.
E50	Incorrect strip type tilted strip	<ul> <li>Note For ID band urinalysis strips, or skip step 1.</li> <li>1. Ensure that the strip type you selected in Instrument Set Up is the type you use (see Section 7, System Configuration, Changing the Urinalysis Test Settings, page 112).</li> <li>2. Verify that you correctly placed the strip on the test table insert. If you used the correct type of strip and you correctly placed the strip on the test table insert, check the analyzer operation by running either of the following tests: <ul> <li>Test a yellow and clear sample.</li> <li>Run a Chek-Stix QC test (see</li> </ul> </li> </ul>
E52	Invalid barcode	Repeat the test using the correct Siemens cassette.

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Troubleshooting

Error Code	Error Message	Action
E53	Strip Test selected but cassette detected	Repeat the test using the Cassette Test routine (see Section 2, <i>Operations, Performing an hCG</i> <i>Cassette Quick Test</i> , page 35).
E54	Cassette Test selected but strip detected	Repeat the test using the Strip Test routine (see Section 2, <i>Operations,</i> <i>Performing a Urinalysis Strip Quick</i> <i>Test</i> , page 29).
E56	Incorrect size test table	Repeat the test using the correct test table (see Section 2, <i>Operations,</i> <i>Performing a Urinalysis Strip Quick</i> <i>Test</i> , page 29).
E57	Missing strip or cassette	Repeat the test and ensure that you correctly position the strip or cassette on the test table (see Section 2, Operations, Performing a Urinalysis Strip Quick Test, page 29 or Performing an hCG Cassette Quick Test, page 35).
E58	Misplaced strip	<ol> <li>Repeat the test and ensure that you correctly position the strip on the test table (see Section 2, <i>Operations, Performing a</i> <i>Urinalysis Strip Quick Test,</i> page 29).</li> <li>If the error remains, examine the test table insert to ensure that the small, white line located near the tip of the strip (on the</li> </ol>
		<ul> <li>and not damaged.</li> <li>3. If this line is damaged, contact your local technical support provider or distributor.</li> </ul>

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Error	Error Message	Action
Code		
E59	Inverted strip	Repeat the test with a fresh strip and
	positioned on the	ensure that the strip is correctly
	test table	positioned on the test table (see
		Section 2, Operations, Preparing a
		Urinalysis Strip Quick Test, page 29).
E60	Tilted strip	Repeat the test with a fresh strip and
		ensure that the strip is correctly
		positioned on the test table (see
		Section 2, Operations, Preparing a
		Urinalysis Strip Quick Test, page 29).
E61	Dry strip	Repeat the test with a fresh strip and
		ensure that the strip has been in
		contact with the sample (see Section
		2, Operations, Preparing a Urinalysis
		Strip Quick Test, page 29).
E62	Light Ingress	Too much light is reflecting on the
		analyzer. Move the analyzer to a
		location with lower lighting.
		Contact your local technical support
		provider or distributor.
E63	Failure to find end	Repeat the test with a fresh strip and
	of strip	ensure that the strip is correctly
	·	positioned on the test table (see
		Section 2, Operations, Preparing a
		Urinalysis Strip Quick Test, page 29).
		, , , , , , , , , , , , , , , , , , , ,

Troubleshooting

Error Code	Error Message	Action
E67 or E68	Sampling Error	A sample flow issue with the cassette test might have been detected. One or more test indicator lines might be missing or indiscernible from the background, or you applied insufficient or excess sample to the cassette. Ensure you correctly fill the pipette and dispense the correct volume of sample into the well of the cassette (see Section 2, Operations, Running a Cassette Quick Test, page 36).
		If the error occurs with a highly colored or visibly bloody or viscous sample, collect a fresh sample and repeat the test. If the error occurs with quality control testing, consider using a different control solution product.
E69	Strip quality problem	When the analyzer performed a quality check, the strip quality failed. The quality check detects whether the strip was compromised due to humidity exposure. Also, some commercially available quality controls and patient samples that are highly pigmented or have very high leukocyte levels might falsely cause this error.
		<ol> <li>Remove the defective strip and discard.</li> <li>Repeat the test with a fresh strip that meets the quality requirements.</li> </ol>

# **Troubleshooting the Analyzer Operation**

The following table contains the analyzer operation icons that can display near the title bar on the **Select Ready** screen when an operation issue occurs.

lcon	Description	Action
	Low Battery Power	Displays on the <b>Select Ready</b> screen, indicating that the battery power level is low. An advisory message also displays when the battery power level is low. The power level decreases while the testing continues. If the battery level falls too low to power the analyzer, you cannot run a test until you replace the batteries. • Replace the batteries. For instructions, see Section 4, <i>Maintenance, Changing the</i> <i>Batteries</i> , page 63.
ര	No Printer Paper	<ul> <li>Displays on the <b>Print Help</b> button on the <b>Select Ready</b> screen, indicating that the printer is out of paper or a label roll. An advisory message also displays.</li> <li>Replace the empty paper or label roll with a new one, as instructed in Section 1, <i>Introduction, Loading the</i> <i>Printer Paper</i>, page 14.</li> </ul>

Troubleshooting

lcon	Description	Action	
X	No Connector	Displays only if you run a CLINITEK Status+ analyzer with a CLINITEK Status connector. Indicates that the analyzer is not connected to the connector.	
		You had enabled the Instrument Settings, Connectivity Platform setting but the analyzer cannot communicate with the connector platform.	00
		<ul> <li>The cables on the analyzer and the connector are not connected physically, a cable broke, or the connector platform stopped working.</li> <li>Check the connectors and cables.</li> <li>If the connectors physically connect the analyzer to the connector platform and the cables are not broken, call your local technical support provider or distributor.</li> </ul>	
	No Remote Connection	Displays only if you run a CLINITEK Status + analyzer with a CLINITEK Status connector. Indicates that the wired (Ethernet) or wireless connection between the analyzer and the server on a remote computer does not exist. The remote connection issue could be caused by the Ethernet card, network host PC, or server software.	

The following table contains the issues that can occur when you operate the analyzer.

Description	Action
Display shows dashes	Dashes in a field indicate where you disabled a an option.
	Dashes also display when you exclude urinalysis tests for chemistries from the test results.
	You can write the information on the blank lines in the test result printout, if needed.
Test table movement is irregular or slow	<ul> <li>Heavy buildup of dried urine on the test table.</li> <li>Clean the test table and insert as described in Section 4, Maintenance, Weekly Cleaning of the Test Table and Test Table Insert, page 57.</li> </ul>
	<ul> <li>Low battery power.</li> <li>Replace the batteries as described in Section 4, <i>Maintenance, Changing</i> <i>the Batteries</i>, page 63.</li> </ul>

# **Calling for Assistance**

If your CLINITEK Status+ analyzer displays corrective actions for a detected problem, carry out the instructions provided before you call for assistance. If your actions do not correct the problem or the instructions do not display, contact your local technical support provider or distributor.

## **Technical Support**

When you call for assistance about an error message, have the following items ready. These items help the technical support representative work on the issue as quickly as possible.

- Error number
- Completed problem list (see *Problem List*, page 77)

## Page 52 of 93

For technical support provider or distributor contact information, see *Appendix B, Support Information, When to Contact Technical Support*, page 131.

# **Customer Support**

For customer support, contact your local technical support provider or distributor. For contact information, see *Appendix B, Support Information*, *When to Contact Technical Support*, .

# **Problem List**

Complete the following form. Have it ready when you speak to your local technical support provider or distributor.

Clir	nitek Status+ Analyzer Problem List		-
Ser	ial Number		
Ins	tallation Date		
Sof	tware Version		
		YES	NC
1.	Have you reviewed the error messages on pages		
	53 to 62?		
2.	Record any error messages that display.		
3.	Does the test table move out to the "load" position when the analyzer is first turned on?		
4.	If Question #3 is NO, then answer the following questions:		
	• Is the power cord connected to a live electrical		
	outlet, into the transformer, and then into the analyzer?		
	<ul> <li>If using batteries, are they fully charged and correctly placed in the analyzer?</li> </ul>		

#### Page 53 of 93

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Troubleshooting

Clin	itek Status+ Analyzer Problem List		
5.	Does the display show the <b>Select Ready</b> screen or the <b>Results</b> screen as expected?		
6.	Does the test table move into and out of the analyzer?		
7.	Does a quality control solution give the expected result?		6,
8.	Is the name of the Siemens Healthcare Diagnostics urinalysis strip or Clinitest immunoassay cassette shown on the display the same as the product being used?	D	
9.	Does the display or printout show the correct test names and expected results?		
10.	Is the white calibration bar on the test table dirty, scratched, or damaged?		
11.	Additional problem observations, please describe:		

# 5 File Management

The system stores the following information:

- System configuration settings
- Up to 950 patient test results

**Note** When the results list reaches 950 patient tests, the analyzer deletes the oldest test from the list. You cannot recall the deleted test.

You can perform the following tasks with the results:

- Recall, search, and view the patient test results
- Automatically send all the test results or individual test results to a computer (if connected)
- Automatically sends the test results to a computer while you test the sample and when you recall results (if configured, and if connected)
- Print all the test results or individual test results
- Delete the test results

File Managemen

If you connect the analyzer to a computer through a serial port, you can send the test results to the host computer. You also can set up the analyzer to automatically transfer the test results to the computer each time the analyzer completes a test. For information about connecting your analyzer to a computer, see Section 1, *Introduction, Connecting the Analyzer to a Computer*.

If you run a CLINITEK Status+ analyzer with a CLINITEK Status connector, see the *CLINITEK Status Connect System Operator's Guide*.

# **Recalling the Patient Test Results**

You can search for the patient test results by patient name or patient ID, or by date. You also can view all the results, and print the patient test results you want.

To search for and recall the patient test results, perform the following steps:

1. At the Select Ready screen, select Recall Results. The

Recall Options screen displays.

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#### 2. Select Recall Patient Tests or QC Tests.

**Note** The QC feature is available only with a CLINITEK Status connector. For details, see the *CLINITEK Status Connect System Operator's Guide*.

The **Recall Options** screen displays.

- 3. Select Patient Tests (default), if necessary, and select Next.
- Search for the results in either of the following ways, or view all the results by skipping to step 5.

To search by patient name or patient ID, perform the following steps:

- a. Select Search for name or ID.
- b. Enter the patient name or patient ID and select Enter. To

search by date, perform the following steps:

- a. Select Search by date.
- b. Enter the earliest date by using the scroll arrows.
- c. Enter the latest date by using the scroll arrows.
- d. Select Select.
- 5. Select View all results.

The **Recall Results Search Results** screen displays with the stored patient results, arranged in chronological order. The most recent test results display at the top and the oldest test result displays at the bottom of the list. The most recent test result is highlighted in the list.

The first page of the patient test results display. If the test results display on more than one page, the **More** button displays. Select **More** to view additional pages of test results.

- 6. Select the up and down arrow keys to scroll through the results.
- 7. To print all the results, select **Print All**.

Any information you entered for a patient displays on the printout.

8. Select **Back > Done** to return to the **Select Ready** screen.

To view and print individual patient test results, perform the following steps:

1. Highlight the result you want to recall.

#### Page 56 of 93

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- 2. Select **Select** to view the result details.
- 3. Select **Print** to print the result.
- When you finish viewing the result, select Done. The Select Test Results screen displays.
- 5. Select **Back > Done** to return to the **Select Ready** screen.

# Sending All the Test Results to a Computer

# This will be set up by the ATC and Biomed engineering

You can send all the test results to a PC or host computer.

To send all the test results to a computer, perform the following steps:

- 1. Verify that you connected the analyzer to a PC or a host computer.
- 2. Display the search results on the screen (see *Recalling the Patient Test Results*, page 80).

## 3. Select Send all data.

To automatically send the test results to a PC, host computer, or Laboratory Information System (LIS), enable a Connectivity setting, as explained in Section 7, *System Configuration*.

**Note** After you set the analyzer to transmit the results automatically, the **Send all data** button remains enabled. If you inadvertently select **Send all data**, the system transmits all data contained in the system memory, and might duplicate the patient records on the host computer or LIS.

# Sending Individual Test Results to a Computer

To send individual test results to a computer, perform the following steps:

- 1. Enable the Allow results to be sent to PC option in Instrument Set Up.
- 2. On the Select Ready screen, select Recall Results. The

Recall Options screen displays.

3. Select Recall Results.

The Recall Results Search Results screen displays with the stored patient

## Page 57 of 93

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results.

4. Using the scroll arrows, scroll down to highlight the patient record and then select Select.

The system resends the data.

5. To return to the Select Ready screen, select Done > Back > Done.

# **Deleting Patient Results**

You can delete all the patient test results for any of the following reasons

- Download the results to a host computer
- Move the analyzer from one site to another
- Send the analyzer for repair
- Protect patient confidentiality and comply with HIPAA regulations
- Discard the analyzer

Note The QC feature is available only with a CLINITEK Status connector. For details, see the CLINITEK Status Connect System Operator's Guide.

To delete the patient test results, perform the following steps:



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# CAUTION

Before you delete any test results, be sure that the loss of the test results is acceptable. If you did not send the test results to a host computer or printer, Siemens recommends that you perform those tasks before you delete the results. Keep in mind, the system erases the results from the database, and you can no

longer recall them.

1. On the Select Ready screen, select Recall Results. The

Recall Options screen displays.

2. Select Delete Records.

The system displays a confirmation message.

3. Select **Yes**.

# **Changing the Display Contrast**

You can increase or decrease the display contrast to suit your work area and lighting where you operate the system. A higher contrast level makes the screen easier to read. The contrast levels range from the darkest at +3 to the lightest at -3. The default contrast level is 0.

To change the display contrast, perform the following steps:

- 1. On the Select Ready screen, select Instrument Set Up.
- 2. On the Choose Settings screen, select Instrument Settings.
- 3. On the Instrument Settings screen, select Display Contrast.
- On the Display Contrast screen, use the up and down arrows to view each contrast setting.
- 5. When you find the contrast setting you want, select Select.
- 6. Select Done twice to return to the Select Ready screen.
- 1. screen.

## Setting up Sample Interference Notes

Sample interference notes inform you about test results that can be affected by components detected in the urine sample. By default, sample interference notes display and print.

Depending on the strip and sample, sample interference notes could include the following statements:

- High SG may cause falsely lowered GLU results.
- Elevated GLU may cause falsely lowered LEU results.
- Visibly bloody urine may cause falsely elevated PRO results.
- High SG may cause falsely lowered LEU results.
- High pH may cause falsely elevated PRO results.

To set up sample interference notes, perform the following steps:

- 1. On the Select Ready screen, select Instrument Set Up.
- 2. On the Choose Settings screen, select Instrument Settings.
- 3. On the Instrument Settings screen, select Sample Interference Notes.
- 4. On the Notes Settings screen, perform the following steps:
  - To include sample interference notes, select **Enabled** (default).
  - To exclude sample interference notes, select **Disabled**.
- 5. Select **Done** twice.

# **Changing the Quality Control Settings**

The Quality Control settings display but they are disabled. If you run the CLINITEK Status + analyzer with a CLINITEK Status connector, the Quality Control settings are available. For instructions on how to set up the Quality Control settings, see the CLINITEK Status Connect System Operator's Guide.

# **Restoring the Default Settings**

You can restore the original settings (see *Default Settings*) for the system.

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# **Updating the Analyzer Software**

Periodically, Siemens adds new features and makes improvements to the CLINITEK Status+ analyzer software. These software updates are available on a memory card that you insert beneath the printer cover.

To upgrade the analyzer software, perform the following steps:



#### CAUTION

Ensure you have printed or recorded the most recent patient results before you perform the software upgrade because the upgrade process deletes all patient records and all patient test results in the system. For more information about recall results, see

Section 6, File Management.

1. If the CLINITEK Status+ analyzer is on, press the on/off power button until the analyzer powers off.

The test table retracts.

- 2. Prepare the analyzer:
  - Ensure the CLINITEK Status+ analyzer connects to external power a. and not battery power.



system Configuratio

CAUTION

Do not use battery power when you upgrade the software. If you do,

the software installation might fail.

- b. Do not power on the analyzer.
- c. Turn the analyzer so that the back of the analyzer faces you.
- d. Lift the printer cover.



## CAUTION

Do not use gloves when you insert or remove the memory card. Using gloves can result in electrostatic damage to the card. Ensure you wear gloves as required by your facility to perform other tasks.

Insert the memory card (label side up, arrow facing the slot) into the 1.

CLINITEK Status+ Analyzer Operator's Guide

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memory card slot to the left of the printer mechanism, until the card stops and then clicks (see *Figure 7-1*).

Figure 7-1: Memory Card Slot



#### 1 Memory Card Slot

- 2. Power on the analyzer by pressing the on/off power button.
  - The analyzer beeps repeatedly in a low tone for up to 90 seconds.
  - The System Test in progress screen displays briefly.
  - The test table extends.
  - The **Software Update** screen displays.
- 3. Select Install Software.



## CAUTION

Do not remove the memory card or disconnect the unit from the power supply during an upgrade. If you do, the installation fails.

A blank screen displays for up to 3 minutes during the following installation process:

- The analyzer beeps repeatedly in a low tone for up to 75 seconds.
- Next, you hear 1 longer beep.

• Then, you hear repeated beeps at a higher tone for up to 2 minutes.

When the installation finishes, the analyzer performs the following operations:

- The screen displays the message, Performing a System Diagnostic Test.
- The test table retracts and extends.
- The **Software Update** screen displays a message that the software was successfully installed.
- 6. Select Done.

If you upgrade from software Version 1.x, the system displays the message E27, Set Up Failure. Clear the error message by continuing with the steps in the next section on how to complete the software upgrade.

**Note** The E27 message indicates that a significant change was made to the system database and occurs with a successful software upgrade from software Version 1.x.

To complete the software upgrade, perform the following steps:

- Press the on/off power button until the analyzer powers off. The test table retracts.
- 2. Remove the memory card from the memory card slot.



#### CAUTION

Do not leave the memory card in the slot after you finish the upgrade. If you do, the system deletes all sample results and performs an unnecessary upgrade each time you power on the analyzer.

- 3. Close the printer cover.
- 4. Power on the analyzer.

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# **Running Diagnostics**

You can run the following diagnostics on the analyzer:

- Display
- Touch Screen
- Printer
- Test Table
- Light Source
- Electronics
- Check cassette



vstem Configuration

## CAUTION

Do not run the Check Cassette diagnostics on your own. Run the Check Cassette diagnostic tests only when your local technical support provider or distributor asks you to do so. The representative will lead you through the test procedure. For local technical support providers and distributors, see *Appendix B*,

Support Information.

To run the diagnostics, perform the following steps:

- 1. On the Select Ready screen, select Instrument Set Up.
- 2. On the Choose Settings screen, select Instrument Settings.
- 3. On the Instrument Settings screen, select Diagnostics.
- 4. On the Select Diagnostics Test screen, select a diagnostic test
- 5. Select Select.
- 6. Read the onscreen instructions.
- 7. Select Run Test.
- 8. Select Done twice.

# **Viewing the System Information**

You can view the following system information:

- Serial number
- Software version

CLINITEK Status+ Analyzer Operator's Guide

To view the system information, perform the following steps:

- 1. On the Select Ready screen, select Instrument Set Up.
- 2. On the **Choose Settings** screen, select **Instrument Settings**.
- 3. On the Instrument Settings screen, select System Information.

The **System Information** screen displays with the serial number and software version.

# Viewing and Printing the System Configuration Settings

You can view and print the system configuration settings.

**Note** If you run an analyzer with a CLINITEK Status connector, you can copy the configuration settings to and from a memory stick. For more information, see the *CLINITEK Status Connect System Operator's Guide, Section 6, System Configuration*.

To view and print the system configuration settings, perform the following steps:

- 1. On the Select Ready screen, select Instrument Set Up.
- 2. On the **Choose Settings** screen, select **Instrument Settings**.
- 3. Select System Configuration.

<u>Svstem Configuration</u>

The **System Configuration** screen displays with the current system configuration details for the options you can change through **Input Settings** and **Instrument Settings**.

- 4. Scroll through the list to view the details.
- 5. Select **Print** to print the system configuration information.

**Note** If you need to replace the printer paper roll, the **Print** option is disabled. For instructions on replacing the printer paper, select **Help** or see *Introduction*, page 7, *Loading the Printer Paper*, page 14.

6. Select Done twice.

# Appendix A: Safety Information

Read the following safety information for your protection in the laboratory.

# **Protecting Yourself from Biohazards**

The established guidelines for handling laboratory biohazards are based on the guidelines developed by the Centers for Disease Control, the Clinical and Laboratory Standards Institute, and the Occupational Safety and Health Administration.

Use these safety guidelines for general information only. It is not intended to replace or supplement your laboratory or hospital biohazard control procedures.

By definition, a biohazardous condition is a situation involving infectious agents biological in nature, such as the hepatitis B virus, the human immunodeficiency virus, and the tuberculosis bacterium. These infectious agents may be present in human blood, blood products, and other body fluids.

# **Recognizing Sources of Contamination**

When you handle potentially infectious agents, keep in mind the following major sources of contamination:

- Hand-to-mouth contact
- Hand-to-eye contact
- Direct contact with superficial cuts, open wounds, and other skin conditions that might permit absorption into subcutaneous skin layers
- Splashes or aerosol contact with skin and eyes

## **Preventing Contamination**

To prevent accidental contamination in a clinical laboratory, strictly adhere to the following procedures:

• Wear gloves while servicing parts of the analyzer that have contact with body fluids such as serum, plasma, urine, or whole blood.

- Wash your hands before going from a contaminated area to a noncontaminated area, or when you remove or change gloves.
- Perform procedures carefully to minimize aerosol formation.
- Wear facial protection when splatter or aerosol formation are possible.
- Wear personal protective equipment such as safety glasses, gloves, lab coats, or aprons when working with possible biohazard contaminants.
- Keep your hands away from your face.
- Cover all superficial cuts and wounds before starting any work.
- Dispose of contaminated materials according to your laboratory's biohazard control procedures.
- Keep your work area disinfected.
- Disinfect tools and other items that have been near any part of the analyzer sample path or waste area with 10% v/v bleach.
- Do not eat, drink, smoke, or apply cosmetics or contact lenses while in the laboratory.
- Do not mouth pipette any liquid, including water.
- Do not place tools or any other items in your mouth.
- Do not use the biohazard sink for personal cleaning such as rinsing coffee cups or washing hands.

## References

- Centers for Disease Control. Update: Universal precautions for prevention of transmission of human immunodeficiency virus, hepatitis B virus and other bloodborne pathogens in healthcare settings. 1988. MMWR, 37:377-382, 387, 388.
- Clinical and Laboratory Standards Institute (formerly NCCLS). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline - Third Edition. Wayne, PA: Clinical and Laboratory Standards Institute; 2005. CLSI Document M29-A3. [ISBN 1-56238- 567-4].
- Federal Occupational Safety and Health Administration. Bloodborne Pathogens Standard. 29 CFR 1910. 1030.

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# Appendix B: Support Information

This appendix provides the technical support information for your CLINITEK Status+ analyzer.

# **Installation Details**

Please record the following information and keep this sheet in your laboratory for future reference.

Date of Installation Serial

# **Limitations of Liability**

In no event shall Siemens be liable for indirect, special or consequential damages, even if Siemens has been advised of the possibility of such damages.

For warranty service, contact your local technical support provider for assistance, instructions, repair, or replacement of this instrument.

# **Legal Information**

To contact a legal representative for Siemens Healthcare Diagnostics in the European community, contact the Siemens Authorized Representative.

# When to Contact Technical Support

Call for assistance if the following circumstances occur:

- An error message continues to display after you perform the steps as described on the screen and in Section 5, *Troubleshooting*.
- You need additional assistance about an analyzer problem.
- The problem is beyond the scope of this guide.
- You cannot solve the problem and an analyzer failure is apparent.

Our local technical support providers are available to help you. Before calling, please complete the *Problem List*. The ATC will provide blank copies of the problem list. Please keep them in the ACTION LOG. This information helps your local technical support provider to identify the probable cause of the problem.

To order supplies or replacement parts, or to obtain service, contact your Ancillary Testing Coordinator.

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Origin GB Siemens Healthcare Diagnostics Inc. 511 Benedict Avenue Tarrytown, NY 10591-5097 USA

#### Siemens Healthineers Headquarters

Siemens Healthcare GmbH Henkestr. 127 91052 Erlangen Germany Phone: +49 9131 84-0 siemens-healthineers.com

CLINITEK Status+ Analyzer Operator's Guide W}&[}d[]^Á¦ā]&ååî ÁÔjã æà^@ÁV¦^^&^Á]}ÁFFÐEDEGEGI ÁFFKHÍ ÁOET ÁÇÒÙVDĂÚæ'^Ä €Á;-ÁJH Ct;];[ç^åÁæ)åÁ&ː;!^}däð-^&aã;^Á;æ;d;\*áFÐ:E0EG;Jád;Hť;(FÁ;ch;•á)Á;ÈED(ŐŠOP;(VÒSÁ))aæ\*•ÁJ]^;æ;[¦ÁÃŐ`ãa^Áä́Y VX West Texas VA Health Care System

# Appendix C: Orderable Supplies

Contact the main lab at ext 7232 or email the ancillary testing coordinator for supplies.

This appendix contains the supplies you can order from your local technical support representative.

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## Documentation

The following documentation is available for your CLINITEK Status+ analyzer. Contact your local technical support representative to order any documentation.

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- Clinitek Status+ analyzer (printed manual, multiple languages available)
- Clinitek Status+ analyzer multilingual CD
- Quick Reference Card (printed manual, multiple languages available)
- LIS Interface Guide

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## Appendix D: Specifications

This appendix contains the analyzer specifications and tables of results.

## **Analyzer Specifications**

This appendix summarizes the design specifications for the CLINITEK Status+ analyzer and provides summary tables of test results from the CLIA waiver and the physician office studies.

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Dimension	Value
Depth	272 mm (10.7 inches)
Width	171 mm (6.7 inches)
Height	158 mm (6.2 inches)
Weight	1.66 kg (3.65 lb) CLINITEK Status+ analyzer only (unpacked, without batteries or power supply)

## **Analyzer Dimensions**

### **Environmental Specifications**

Specification	Value
Ambient Operating Temperature Range	18° to 30°C (64° to 86°F)
Ambient Operating Humidity Range	18% to 80% Relative Humidity (non-condensing)
Optimum Operating Temperature Range	22° to 26°C (72° to 79°F)
Optimum Operating Humidity Range	35% to 55% Relative Humidity (non-condensing)
	Optimum ranges insure that the reagent results are optimized for performance. For example, at temperatures under 22°C (72°F), urobilinogen and leukocyte results might decrease, and at temperatures above 26°C (79°F), increase.
Altitude	2000 m (6562 ft)
Pollution Degree	2

### **Electrical Requirements**

Requirement	Value
Power	9V DC, 7.2 VA
Battery Powered Operation	Size 6 AA alkaline batteries

CLINITEK Status+ Analyzer Operator's Guide

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## **Safety Standards**

The CLINITEK Status+ analyzer is classed as a Class A computing device in accordance with Part 15 of the FCC Rules.

**Note** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## **Safety Certifications**

For safety certifications information, see the Declaration of Conformity (DoC). Contact your local technical support provider for the DoC.

## Electromagnetic Compatibility (EMC)

For electromagnetic compatibility (EMC) information, see the Declaration of Conformity (DoC). Contact your local technical support provider for the DoC.

## **Tables of Results**

The analyzer displays and prints the test results for reagent strips and cassettes in the following formats:

- English Units, Conventional
- English Units, International (SI)
- English Nordic Units, Nordic Plus System

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## $\vec{\omega}$ English, Units – Conventional

If you select English Conventional unit of measurement, the reagent strip and cassette tests display the following results.

### **Reagent Strip Tests**

The following table contains the test, abbreviation, units, Normal System results, and Plus System results for English Conventional units for reagent strips.

The results shown in the shaded areas are marked as positives, if you enabled Mark Positive Results in Instrument Set Up. They are marked by asterisks when displayed and printed, and when the CLINITEK Status+ analyzer transfers the data to a host computer.

Table D-1:	English Units –	Conventional,	Reagent	Strips
Table D-1.	English Onits –	conventional,	neagent	Suip

Test	Abbreviation	Units	Reported Results				
			Normal System			Plus System	
Glucose	GLU	mg/dL	Negative		500	Negative	2+
			100		>=1000	Trace	3+
			250			1+	
Glucose (CLINITEK	GLU	mg/dL	Negative		500	Negative	2+
Microalbumin 9)			100		1000	Trace	3+
			250		>=2000	1+	4+

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Test	Abbreviation	Units	<b>Reported Results</b>				
			Normal System			Plus System	
Bilirubin	BIL	(	Negative		Moderate	Negative	2+
			Small		Large	1+	3+
Ketone	КЕТ	mg/dL	Negative		40	Negative	2+
			Trace		80	Trace	3+
			15		>=160	1+	4+
Specific Gravity	SG	-	<=1.005		1.020	No Difference	
			1.010		1.025		
			1.015		>=1.030		
Occult Blood	BLO	-	Negative		Small	Negative	1+
			Trace-lysed		Moderate	Trace-lysed	2+
			Trace-intact		Large	Trace-intact	3+
рН	рН	-	5.0	6.5	7.5	No Difference	
			5.5	7.0	8.0		
			6.0	7.5	8.5		

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Test	Abbreviation	Units	Reported Results				
		-	Normal System			Plus System	
Protein (Multistix	PRO	mg/dL	Negative		100	Negative	2+
		50					
			250			1+	
Urobilinogen	URO	E.U./dL	0.2		4.0	No Difference	
			1.0		>=8.0		
			2.0				
Nitrite	NIT	-	Negative		Positive	No Difference	
Leukocytes	LEU	-	Negative		Moderate	Negative	2+
			Trace		Large	Trace	3+
			Small			1+	

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# Appendix E: Symbols

This appendix provides the symbols for the analyzer and packaging.

## **Analyzer and Labeling Symbols**

The analyzer and labeling symbols are in the following locations:

- CLINITEK Status+ analyzer documentation
- CLINITEK Status+ analyzer exterior

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- Power supply provided with the analyzer
- Carton in which the analyzer was delivered
- Urinalysis strips and cassettes supplies that you use with the analyzer

## Analyzer and Packaging Symbols

This following table contains the symbols that appear on the exterior of the CLINITEK Status+ analyzer, the power supply provided with the analyzer, the carton in which the analyzer was delivered, and the urinalysis strips and cassettes supplies that you use with the analyzer.

Symbol	Description	
===	Direct current input supply	
	Double insulated product or transformer may also ident class 2 equipment (power supply only)	ify
	Instrument is safety tested by TUV SUD, a national certification body, for conformity to global markets, including Canada, US, and Europe.	
	Manufacturer	
$\bigcirc$	Power on/off button	
$\triangle$	Caution, consult accompanying documents	
<b>IVD</b> Stat	In vitro diagnostic medical device	153

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Symbol	Description	
ī	Consult instructions for use	
	Caution, temperature hazard, hot surface	
	Caution for handling electrostatic sensitive devices to avoid causing a hazard to the product	

### **Analyzer Symbols**

This following table contains the symbols on the exterior of the CLINITEK Status+ analyzer and the carton in which the analyzer is delivered.

Symbol	Description
10101	Serial port
50	This analyzer contains certain toxic or hazardous substances or elements. The environmental protection use period for this analyzer is 50 years. The analyzer can be used safely during its environmental protection use period. The analyzer should be recycled immediately after its environmental protection use period has expired.
18°C-	Temperature limitation (18–30° C)
¥100	Contents sufficient for (n) tests (100) Use by
Σ	YYYY-MM
	Catalog number
514	Serial number Batch
LOT	code
	Biohazard

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Symbol	Description		
X	This equipment is classified as Waste Electrical and Electronic Equipment under the European WEEE Directive. It must be recycled or disposed of in accordance with applicable local requirements		
	Printed on recycled materials	2	
REZY	Indicates compliance with the RESY packaging standards Do	$\odot$	
2	not reuse a reagent	×	
	Keep this way up		
Ţ	Fragile, handle with care		
Ť	Keep dry		
×	Keep away from sunlight and heat		
	VDE Testing and Certification Institute – Germany		
FWHK	Manufacturer's mark (FWHK) and manufacturing location (Hong Kong)		
	Manufacturer's mark (FWGB) and manufacturing location		,
	Encapsulated safety isolating transformer (short-circuit proof)		

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Symbol Description	
<ul> <li>Positive Temperature Coefficient (PTC) A thermisto</li> </ul>	
device used to protect the transformer from short-circu or overload. This is an auto reset device	r its
Thermal cut-out (TCO) This safety device disconnects the supply voltage to the transformer at a specific temperature. The operation temperature is stated below	ne w
IP40 Ingress protection rating Protected against the entry of solid objects >1 mm but no protection from liquids	of
Risk of electric shock.	

## **Display Icons**

This following table contains the icons that display on the screen.

Symbol	Name	Description
	Instrument Set Up	Allows you to set up the analyzer to suit your needs.
	Strip Test	Runs a test with a urinalysis strip (such as Multistix 10SG) urinalysis test and displays the strip test results.
	Cassette Test	Runs a test with a cassette (Clinitest hCG) test and displays the cassette test results.
	Results Recall	Recalls results from the analyzer memory.
	Printer	Prints results.
	Data Transfer to Personal Computer	Displays the individual data and test results that the CLINITEK Status+ analyzer transfers to a PC.

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Symbol	Name	Description
$\triangle$	Alert	Alerts you to an error message.
	Battery Power	Displays a maximum of four bars, indicating the battery power level of a a battery powered analyzer.
	Low Battery Power	Displays fewer than three bars, indicating the battery power level of a a battery powered analyzer is low.
$\mathbf{\mathfrak{D}}$	Paper Out	Displays when you need to replace the printer paper or label roll.
	Connector	Indicates that the analyzer is connected to the CLINITEK Status connector.
X	No Connector	Displays only if you run a CLINITEK Status+ analyzer with a CLINITEK Status connector.
		Indicates that the CLINITEK Status+ analyzer is not connected to the CLINITEK Status connector.

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Symbol	Name	Description
	Connectivity	
		Displays only if you run a CLINITEK Status+ analyzer with a CLINITEK Status connector
		Indicates that the CLINITEK Status+ analyzer is connected to the CLINITEK Status connector, Connectivity is enabled, and the system is connected to the LIS.
	No Connectivity	Displays only if you run a CLINITEK Status+ analyzer with a CLINITEK Status connector. Indicates that the CLINITEK Status system is not connected to the wired (Ethernet) or wireless connection between the analyzer and the server on a remote computer.

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## Appendix F: Glossary

The glossary contains hardware and software terms and acronyms.

## **Hardware Terms**

The following table defines hardware terms commonly used on the CLINITEK Status+ analyzer.

Term	Definition	
bar code	Encoded information that is read by an optical scanner.	
calibration bar	The white calibration bar (on the test table) that provides traceable calibration.	
cassette	A Clinitest hCG reagent cassette for pregnancy test use.	
check cassette	A system diagnostic cassette that simulates a reacted test area.	
CLINITEK Status+ analyzer	The CLINITEK Status analyzer with increased memory and additional features.	
CLINITEK Status Connect system	The CLINITEK Status+ analyzer attached to the CLINITEK Status connector.	
connector	The CLINITEK Status connector platform where you can attach the CLINITEK Status+ analyzer.	
display	The LCD that displays the software user interface.	
Ethernet port	The port where a network Ethernet cable is inserted.	
external bar-code reader	An optional bar-code scanner that is connected to the RS232 port on the connector. Used to enter data.	
external printer	An optional printer is connected to the CLINITEK Status Connect system, only when you connect the CLINITEK Status+ analyzer to the CLINITEK Status connector.	
hardware	The physical components of the analyzer.	

CLINITEK Status+ Analyzer Operator's Guide

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Term	Definition
instrument	The CLINITEK Status+ analyzer.
memory card	An electronic storage device that stores the analyzer software.
onboard printer	The internal paper roll printer.
onboard printer cover	The portion of the case that opens and closes to cover the on-board printer.
power cord	The cord that connects the analyzer to an electrical outlet.
power switch	The switch that turns the analyzer on and off.
serial connector	An RS232 connection used to transfer data between the analyzer and a PC.
test table	The plastic case that holds the test table insert.
test table insert	The plastic case that holds either the cassette or urinalysis strip for testing.
touch screen	The LCD display that lets the operator select controls on the screen.
USB port	The ports where USB cables are inserted.
urinalysis strip	A Siemens urinalysis strip with test pads for <i>in vitro</i> diagnostic use.

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## **Software Terms**

The following table defines software terms commonly used on the CLINITEK Status+ analyzer.

Term	Definition
alert message	A message that conveys information to the operator about the analyzer.
alphanumeric	Data comprised of alphabetic and numeric characters.
audio alert	Sounds emitted by the analyzer to draw the operator's attention to the analyzer.

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Term	Definition
authorized operator	Operators who can perform certain tasks, where they gain access to the analyzer by entering their operator ID to perform those tasks.
auto-check	Performs automatic strip quality checks and provides results in about 1 minute.
automatic strip identification	Automatically identifies an ID band strip type with no need to select it from a menu.
baud rate	The speed of data transmission in bits per second (bps) between the analyzer and a remote device.
calibration	The analyzer reads the white calibration bar at the appropriate wavelengths to ensure accurate test results.
cancel	To end a sequence or anoperation.
comment	A notation the operator enters for a QC test result.
configuration	System hardware and software settings that adjust or configure some aspect of the analyzer.
conventional unit	Unit of measurement for test results. control
	Objects that display on the software UI that the operator can manipulate. Buttons, boxes, and optionbuttons are examples of controls.
	Solution containing a known level of analytes.
countdown	A numeric display that indicates the amount of time left in an operation.
Custom set up	Patient, operator, and sample appearance custom settings.
data entry	The act of entering data such as a patient or operator ID into the analyzer.
data entry box	A software UI object which displays the data that the operator entered.

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Term	Definition	
default setting	A value defined and preset by Siemens.	
delete	A function an operator uses to remove an object, such as test results or an authorized operator, from the system database.	
diagnostic screen	A software UI screen which enables the operator to perform a system diagnostic test when troubleshooting the analyzer.	6
disabled	The state when a software feature or function, such as a configuration setting, is not available.	
enabled	The state when a software feature or function, such as a configuration setting, is available.	
error	An event that prevents the analyzer from operating as expected.	
error code	A number displayed by the analyzer to communicate the occurrence of an error to the operator.	
export	To copy setup data from the analyzer to a removable data storage device.	
Full Test	A strip or cassette test where the operator is prompted to enter patient and operator information.	
help	Information presented to the operator to assist them with the completion of a task or operation.	
Help screen	The screen that displays the help information to the operator.	
humidity check	Detects if the strip is exposed to humidity and if so, displays an error message.	
icon	An graphical depiction of a control in the software UI.	
import	To copy setup data from a removable data storage device to the analyzer.	

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Glossar

Term	Definition
keyboard	A software UI display (alphabetic or numeric) that the operator uses to type information.
laboratory information system	Laboratory computer system that you can connect to the analyzer. Abbreviation: LIS.
Menu screen	A software UI screen that displays a list of commands and one or more command buttons for the operator to select.
Normal System	Provides a negative result or a value for a positive result.
notifications message	A message that conveys information about the analyzer to the operator.
navigation	The act of moving between the screens that comprise the analyzer software UI.
navigation button	A software UI button control that when selected, brings the operator to a different software screen.
parity	A serial communication setting that verifies whether the data has been transmitted accurately.
Plus System	Provides plus symbols (+) for a result. The more plus symbols, the higher the result. For example, 2 + represents two plus symbols (++) and 3+ represents three plus symbols (+++).
power supply	Electronic component of the analyzer that converts the AC voltages in the power line to the DC voltages inside the analyzer.
prompt	Questions, instructions, or commands that help the operator complete the current task.
quality control	A process that ensures the operator is following the procedure to obtain accurate test results. Abbreviation: QC.
Quick Test	A strip or cassette test where the analyzer does not prompt you to enter patient or operator information.

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Term	Definition	
ready	The state when the analyzer is available to perform tests.	
recall	To access data such as test results stored on the analyzer.	
restore	To restore the analyzer setup to the default settings.	2
required entry	A data entry box that must have data entered into it.	
sample interference notes	Informs the user when appropriate about test results that can be affected by components detected in the same urine sample.	
screen	The display area that contains the controls the operator selects when operating the analyzer. The analyzer software UI contains screens, prompts, messages, and other operating information.	
screen title	A text label that typically displays in the upper left corner of a screen which serves as a label for that screen.	
Select Ready screen	The software UI screen that displays when the system completes the startup process. All software UI navigation begins from the Select Ready screen.	
settings	The areas of the software user interface where you can configure the analyzer.	
Settings screen	A software UI screen which enables the operator to adjust or configure some aspect of the analyzer.	
SI units	An abbreviation for Systéme International, a unit of measure.	
software	Computer instructions that generate and carry out commands to control the system operation.	

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Term	Definition	
startup code	If your software provides sample interference notes, the Start-Up wizard prompts you to enter a startup code.	
Start-Up Wizard	A wizard that steps you through a quick setup procedure when you power on the analyzer for the first time.	y ince
stop bits	The number of bits that maintain synchronization between the system and a remote device during data transmission.	0
test result	Measured reportable values displayed to the operator at the end of a test sequence.	
test sequence	A series of software UI screens that guides the operator through the tasks required to perform a test on a sample.	
Title bar	The area along the top of software UI screens where the location icon and title display.	
troubleshooting	Determining the cause of a system or test performance problem.	
user interface	The system software screens where the	]

## Acronyms

The following table defines acronyms commonly used on the CLINITEK Status+ analyzer.

Acronym	Full Title
ALB	Albumin
ASTM	American Society for Testing and
	Measurement
BIL	Bilirubin
BLO	Occult Blood
CRE	Creatinine
CSV	Comma Separated Values

CLINITEK Status+ Analyzer Operator's Guide

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Acronym	Full Title
DC	Direct Current
DHCP	Dynamic Host Configuration Protocol
DMS	Data Management System
DNS	Domain Name Server
EHR	Electronic Health Record
EMR	Electronic Medical Record
GLU	Glucose
hCG	Human Chorionic Gonadotrophin
HIS	Hospital Information System
HL7	Health Level 7 (protocol)
IP	Internet Protocol
КЕТ	Ketone
LAN	Local Area Network
LEU	Leukocyte
LIS	Laboratory Information System
NIST	National Institute of Standards and Technology
NIT	Nitrite
рН	Hydrogen ion concentration
PC	Personal Computer
РОСТ	Point of Care Testing (protocol)
PRO	Protein
QC	Quality Control
SG	Specific Gravity
SI	Systéme International
SN	Serial Number
UI	User Interface
URO	Urobilinogen
USB	Universal Serial Bus
VA	Volt Amp

CLINITEK Status+ Analyzer Operator's Guide

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There is an index that can be found in the complete Operator's Guide. That Guide will be provided for reference. This guide is for day-to-day operation.

Reference: Clinitek Operators Guide REV E 2022-05

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