

1 IMPORTANT INFORMATION ABOUT YOUR SYSTEM

INTENDED USE

The TRUE METRIX Blood Glucose Monitoring System is intended for the quantitative determination of glucose in human whole blood taken from the fingertip or forearm (capillary) or from the vein (venous). The System may not be used for neonates. The System is intended for at-home use (self-testing) and for use by Healthcare Professionals in both physicians' offices and in acute and convalescent-care bedside testing facilities in order to assist in the management of diabetes.

If Please read complete System IFU and all product Instructions for Use before using the System.

IMPORTANT HEALTH and SAFETY INFORMATION

- For the most accurate results using TRUE METRIX:
- Read <u>all</u> product instructions for use before testing.
- Use of TRUE METRIX in a manner not specified in this System Instructions For Use is not recommended and may affect ability to determine true blood glucose levels.
- TRUE METRIX is an *in vitro* (outside body) **IVD** quantitative system that is used for self-testing of human whole blood only. • Alternative site (forearm) testing should not be used for insulin dose calculations. Alternative site testing should not be used to calibrate continuous glucose monitors (CGMs).
- Use only TRUE METRIX Test Strips and TRUE METRIX Control Solution with the TRUE METRIX Meter.
- Remove only one test strip at a time from test strip vial. Recap vial immediately.
- NEVER reuse test strips. NEVER wipe test strips with water, alcohol or any cleaner. DO NOT attempt to remove blood or control sample from test strips or clean test strips and re-use. Reuse of test strips will cause inaccurate results. NEVER add a second drop of sample to test strip. Adding more sample gives an error message.
- Perform Control Tests **before** performing a blood glucose test for the first time.
- Perform Control Tests with more than one level of TRUE METRIX Control Solution. Three levels of control solution are available for Control Tests. Contact place of purchase or contact for assistance to obtain control solution. ALL parts of the TRUE METRIX Blood Glucose Monitoring System could carry blood-borne pathogens after use, even after
- cleaning and disinfecting.² Cleaning and disinfecting the lancing device and the meter destroys most, but not necessarily all, blood-borne pathogens.
- Wash hands thoroughly with soap and warm water before and after handling the meter, lancing device, lancets, or test strips as contact with blood presents an infection risk.
- It is important to keep the meter and the lancing device clean. For instructions on how to clean the meter and lancing device, see Meter Care, Cleaning/Disinfecting and Lancing Device Care and Cleaning.
- If the meter is being operated by a second person who provides testing assistance, the meter and lancing device should be cleaned prior to use by the second person. The system should be used only on one person and not shared, even with family members. Lancing devices are for single
- person use only and SHOULD NOT be shared, even with family members. • Reuse of devices labeled for single-use may result in product contamination and patient infection.
- If there are symptoms of low or high blood glucose, check blood glucose immediately. If the result does not match the way you feel, repeat the test. If the results still do not match the way you feel, contact a Doctor or Healthcare Professional immediately. Low blood glucose (hypoglycaemia) symptoms may be trembling, sweating, intense hunger, nervousness, weakness, and
- High blood glucose (hyperglycaemia) symptoms may be intense thirst, a need to urinate often, dry mouth, vomiting, and
- Do not use for the diagnosis of or screening for diabetes mellitus or for measuring blood glucose in neonates.
- DO NOT perform capillary blood glucose testing on the critically ill. Capillary blood glucose levels when critically ill with reduced peripheral blood flow may not reflect the true physiological state. Reduced peripheral blood flow may result from the following conditions (for example):³ shock, ~ severe hypotension, ~ severe dehydration, ~hyperglycaemia with hyperosmolarity, with or without ketosis.
- All meter brands perform differently. Test results from one meter brand to another may vary. This is why test results from your meter should only be compared to a laboratory instrument (Yellow Springs Instrument (YSI) recommended) and not to another meter brand.

FOR HEALTHCARE PROFESSIONALS:

WARNING! Upon opening the test strip carton, examine the product for missing, damaged or broken parts. Ensure the test strip vial cap is securely closed. If the product is damaged or the vial cap is not closed, DO NOT use the test strips for testing; product may give inaccurate results. Contact Trividia Health Customer Care for replacement and assistance.

- The system can be used on multiple patients, provided Healthcare Professionals always wear gloves and follow the Cleaning/ Disinfecting section and/or adhere to the infection control policies and procedures approved by their facility.
- The test strips and lancets are for single-use. Lancing device is restricted to be used on one patient only.
- Venous whole blood drawn into only a sodium heparin blood collection tube must be used for testing. Mix well before use. • DO NOT use venous whole blood collected in sodium fluoride blood collection tubes for testing, as this may cause inaccurate results.

REFERENCES

- .. Joslin Diabetes Center. Goals for Blood Glucose Control [Electronic Version]. Retrieved June 8, 2015 from http://www.joslin.org/info/Goals-for-Blood-Glucose-Control.html.
 2. FDA Public Health Notification: Use of Fingerstick Devices on More than One Person Poses Risk for Transmitting Blood Borne Pathogens: Initial Communication Update 11/29/2010 [Electronic Version].
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 4. U.S. Food and Drug Administration. Blood Glucose Meters, Getting the Most Out of Your Meter. [Electronic Version].
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 6. Larsson-Cohn U: Difference between capillary and venous blood glucose during oral glucose tolerance tests. Scand J Clin Lab Invest 36:805-808, 1976.
 6. European Committee for Standardization. In vitro diagnostic test systems. Requirements for blood-glucose monitoring system for self-testing in managing diabetes mellitus.
 6. Reference number EN ISO 15197:2015 (E). Brussels: European Committee for Standardization; 2015.
 6. Data on file.

A TRIVIDIA

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2 SYSTEM SPECIFICATIONS Result Range: 1.1 - 33.3 mmol/L **SYMBOLS: Sample Size:** 0.5 microliter $(0.5 \mu L)$ Biological Risk Sample: Fresh capillary whole blood, venous whole blood collected in sodium heparin blood collection tubes, or control solutio STERILE R Sterile **Test Time:** Results in as fast as 4 seconds Result Value: Plasma values Do Not Resterilise Assay Method: Amperometric Single Use Only **Power Supply:** One 3V lithium battery #CR2032 (non-rechargeable) **Battery Life:** Approximately 1000 tests or 1 year **CONTROL** Control Solution Automatic shut-off: After two minutes of non-use Weight: 47 grams 1 2 3 Control Level **Size:** 8.7 x 5.5 x 1.7 cm Memory Size: 500 glucose results and 1 control result **SN** Serial Number Operating Range (Meter & Test Strips For Blood Testing) Caution! Relative Humidity: 10-90% (Non-condensing) **Temperature:** 5°C-40°C ☐ Use By Date Haematocrit: 20%-70% Altitude: Up to and including 3109 metres Note: Use within specified environmental conditions only. Keep Dry **Chemical Composition** Attention Read Instructions for Use. **Test Strips:** Glucose dehydrogenase-FAD (Aspergillus sp.), mediators, buffers and stabilizers. Storage Temperature Range Control Solution: Water, d-glucose, buffers, viscosity enhancing agent, salts, dye and preservatives. Storage Humidity Range <u>,</u> (28)" **EXPECTED RESULTS LOT** Lot Number Expected Blood Glucose Results for people without diabetes:1 For in vitro IVD Diagnostic Testing Only Before breakfast < 5.6 mmol/l EC REP Authorised Representative Two hours after meals < 7.8 mmol/I Importance of Blood Glucose Monitoring Manufactured By A Doctor or Healthcare Professional determines how often to test and what the target Date of Manufacture ranges are for blood glucose results. Having most blood glucose results within target range shows how well a treatment plan is working to control glucose levels. Keeping Single Patient Use Only

results within target range helps slow or stop complications from diabetes. NEVER change a treatment plan without consulting a Doctor or Healthcare Professional. 3 KNOW YOUR SYSTEM **METER** TEST STRIP Top of Meter

①" **◄** " Button

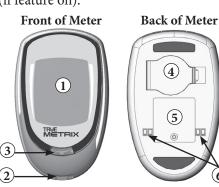
Decrease numbers in Meter Set Up; remove ALT Symbol; move backward by date/time when viewing results and Averages in Memory; scroll through Event Tags to mark results (if feature on).

2 "•" Button

Turn meter on to view Average values, to view results in Memory, to access Meter Set Up, to turn on Event Tags in Meter Set Up.

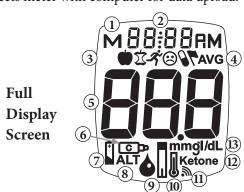
® " ▶ " Button

Increase numbers in Meter Set Up; add ALT Symbol; move forward by date/time when viewing results and view Averages in Memory; scroll through Event Tags to mark results (if feature on).



- Display Screen
- Shows results, messages, user prompts, information.
- Insert Test Strip here, contact blocks facing up.
- **③ Strip Release Button**
- Releases test strip after testing for disposal.
- **Battery Door**
- Use one non-rechargeable 3V lithium battery (#CR2032), positive ("+") side up (see Changing Battery)
- Meter Label
- Contains serial number of meter.
- **Data Contacts**

Connects meter with computer for data upload.



- Result is from Memory
- Time, Date
- **Event Tag Symbols**

Full

Screen

- Result is from 7-, 14-, or 30-Day Average
- Test Result
- Control Symbol
- Battery Symbol
- Alternate Site (ALT) Symbol
- **9.** Drop Symbol Apply blood or control solution
- 10. Temperature Symbol
- 11. Test Reminder Symbol
- 12. Ketone Test Alert Symbol
- **13.** Units of Measure (*Note:* Shows both mmol/L and mg/dL in full Display. Unit of measure is factory set and cannot be changed.)

Top of Test Strip

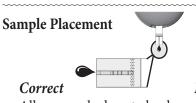
① **Contact End** - Insert into Test Port with contact blocks

Waste Electrical and

Electronic Equipment

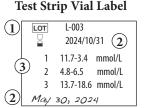
② **Sample Tip** - Touch Tip to top of drop of sample (fresh blood or control solution) after Drop Symbol appears in the Display.

Note: Insert test strip into meter <u>before</u> touching Sample Tip to blood or control solution drop.



- Incorrect Allow sample drop to be drawn into Sample Tip until testing begins (meter beeps and dashes move across Display).
- Do not smear or scrape drop with test strip.
- Do not apply more sample to test strip after testing begins.
- Do not apply blood or control solution to top of test strip. • Do not insert Sample Tip with sample into Test Port. May damage meter.

Test Strip Vial Label



- ① Lot Number (Lot) Used for identification when contacting for assistance.
- ② Use By Dates (\square) Write date first opened on vial label. Discard vial and unused test strips if either the open vial Use By date or the date printed next to an on vial label has passed, whichever comes first. See the test strip Instructions for Use for open vial Use By date.

Use of test strips or control solution past the Use By Dates may give incorrect test results. Discard out-ofdate products and test with new products.

3 Control Test Range - Range of numbers in which Control Test result must fall to assure the system is working properly.

CONTROL SOLUTION CONTROL

Control Solution Bottle Label



- ① **Lot Number** (Lot) Used for identification when contacting for assistance.
- ② **Use By Dates** ($\{ \ \ \ \ \}$) Write date first opened on bottle label. Discard bottle if either 3 months after first opening or date printed next to \(\subseteq \) on bottle label has passed, whichever comes first.
- **3 Control Solution Level (1, 2, or 3) -** We recommend testing at least 2 levels of control solution. Use the contact information at the bottom of the page for information on how to obtain different levels of control solution.

4 GETTING STARTED

Meter comes with pre-set time and date. The Event Tags, Ketone Test Alert, and all Test Reminders are off. Before using the meter for the first time or after a battery change, check the time, date, Event Tags, Alert and Reminders, and update as needed (see *Meter Set Up*).

The meter turns on when a test strip is inserted into the Test Port or when " • " Button is pressed (see Meter Memory and Meter Set

Meter turns off when the test strip is released or removed from the meter, "•" Button is pressed, or after 2 minutes of non-use.

Turning the Ketone Test Alert on sets a reminder to check your ketones per your treatment plan when a blood glucose result is

Test Reminders are set like an alarm clock to sound a tone for 10 seconds to remind you to test. Up to four Test Reminders per day may be set.

Event Tags allow you to tag your blood glucose results to link to the following events:

- Before meal –test was taken just before a meal,
- ☆ After meal –test was taken after a meal,
- * Exercise test was taken during or just after exercise, Medications – medication taken may have affected test
- result,
- ⊗ Sick test was taken when sick, or

over 13.3 mmol/L.

Other – any other reason that the test is unique or different in some way (example: stress, drinking alcohol). In your logbook, note the reason that the test result was tagged. Seeing a result with this Event Tag in the meter Memory reminds you that there is more about this test result in your log book.

Tagging results helps track the effect specific events may have on your blood glucose test results. Event Tagging may assist you and your Doctor or Healthcare Professional with managing your diabetes.

QUALITY CONTROL TESTING

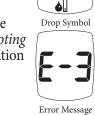
To assure accurate and reliable results, the System offers two kinds of quality control tests. These tests ensure that the System is working properly and testing technique is good.



An Automatic Self-Test is performed by the meter each time a test strip is inserted correctly into the Test Port. Insert a test strip into the Test Port.

- The meter is working properly if:
- ~ the full Display appears, then the time appears in the upper
- part of the Display, and then, the Drop Symbol begins to blink.

If an error message appears in the Display, the meter will not perform a test. See Troubleshooting or contact for assistance (see contact information at the bottom of the page).



888

Full Display

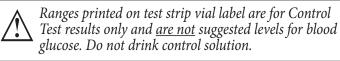
15:00

If any segments are missing in the Display when meter is first turned on, do not use the meter for testing. Contact for assistance.

CONTROL TEST

We recommend performing Control Tests to check the performance of the system.

- Control Tests should be performed:
- To practice before using the system for the first time, • For practice to ensure testing technique is good,
- Occasionally when using a vial of test strips,
- When opening a new vial of test strips, • If results seem unusually high or low,
- If a vial has been left opened or exposed to extreme
- heat or cold, or humidity, Whenever a check on performance of the system is needed,
- If meter damage is suspected (meter was dropped, crushed,
- Note: It is important to perform Control Tests with more than one level of TRUE METRIX Control Solution. Three levels of control solution are available for Control Tests. Use con tact information at the bottom the page for more information on how to obtain control solution.



How to Test Control Solution

Use **ONLY** TRUE METRIX Control Solution with the TRUE METRIX Meter and TRUE METRIX Test Strips.

1. Check dates on control solution label and test strip vial label. Do not use control solution or test strips if either Use By Date has passed (control solution - 3 months after first opening or date next to \square on bottle label; test strips - after open vial Use By Date (see Test Strip Instructions for Use) or date next to an vial label.) Discard expired products and use new products.

How To Test Control Solution, cont.

- 2. Allow control solution, vial of test strips and meter to adjust to room temperature. Write date first opened on both control solution bottle label and test strip vial label when using for the first time.
- Gently swirl or invert control solution bottle to mix.
- DO NOT SHAKE! 4. Remove one test strip from vial. Close test strip vial imme-

Insert Test Strip

15:00

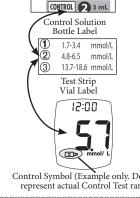
Drop Symbol

Discard Control

Solution Drop on Tissue

12:00

- diately. Use test strip quickly after removal from vial. **5.** Insert test strip into Test Port. Meter
- **Note:** If test strip has been out of the vial too long before testing, an error message appears ter. Release and discard old test strip. Use new test strip for testing.
- Wait until Drop Symbol appears in Display. Keep test strip in meter until testing
- **Note:** If test strip is removed before testing is finished, an error message appears. Release and discard old test strip. Use new test strip for testing.
- bottle upside down. Squeeze one drop of off bottle tip and discard tissue.
- **8.** Gently squeeze a drop of control solution onto a small piece of unused aluminum foil or clear plastic wrap. Dispose after use.
- Tip of test strip to top of drop of control solution. Allow drop to be drawn into test strip. Remove test strip from drop when meter beeps and begins testing.
- meter is testing.
- **Note:** If meter does not beep and begin testing soon after drawing up sample, release and discard test strip. Repeat test with new test strip. If problem persists, see Troubleshooting.
- Control Test range printed on test strip vial label for level of control solution you are using. If result is in range, system can be used for testing blood. If result does not fall within range, repeat test using a new test strip.



Note: Control Test result shows the Control Symbol in the Display

If Control Test result is outside range, test again. If result is still outside range, system should not be used

12. After result is shown, Strip Release Button flashes. Hold meter with test strip pointing down. Press Strip Release Button to release and discard test strip into appropriate container. Meter turns off.

Note: Removing test strip before result displays cancels the test. An error message appears and the result is not stored in *Memory. Retest with a new test strip and do not remove*

OBTAINING A BLOOD SAMPLE

before result is displayed.

Refer to lancing device Instructions for Use for detailed in-

The lancing device is for single patient use ONLY. For cleaning your lancing device see lancing device's Instructions for Use. Wash your hands thoroughly with soap and warm water after handling the meter, lancing device, or test strips. Contact with blood presents an

- Never share lancets or lancing device. Lancets are for single use only. Do not re-use.
- To help prevent false high results, wash hands before using the system to test blood, especially after fruit has been

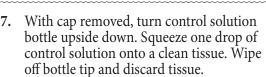
From Fingertip

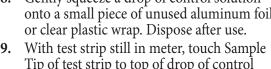
hand to waist level, gently massaging finger from palm to fingertip. Allow blood drop to form for testing. Apply sample to test strip Sample Tip. 4. After testing, recap and remove used lancet from lancing

device. Discard used lancet into appropriate container. Treat used lancets as a biological risk. Dispose used lancets in approved container.

FRONT PAGE

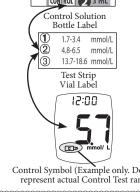
upon insertion of the test strip into the me-

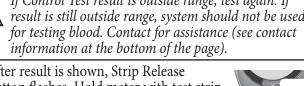




10. Dashes appear across the Display to show

11. Compare meter result to TRUE METRIX





5 TESTING BLOOD

1. Prepare fingertip by washing hands in warm, soapy water. Rinse well. Dry thoroughly. **2.** Place end of lancing device equipped with a

lancet against tip of finger. Lance fingertip. 3. Set lancing device aside. To help blood drop form, lower

Tips for Forearm Sampling Important Notes Regarding Forearm Testing4

- Check with the Doctor or Diabetes Healthcare Professional
- to see if forearm testing is appropriate. Results from the forearm are not always the same as results
- Use finger for testing instead of forearm for more accurate resul
- Within 2 hours of eating, exercise, or taking insulin, If blood glucose may be rising or falling rapidly or their results often fluctuate,
- If the patient is ill or under stress,
- If the glucose result may be low or high,
- If symptoms of low or high glucose levels are not evident. Select area. Clean the area with soap and warm water,
- rinse or use an approved disinfectant. Dry thoroughly, Rub area vigorously or apply a warm, dry compress to
- increase blood flow.
- Lance forearm. Apply sample to Sample Tip. 4. Discard all biohazard materials into appropriate container
- 🙀 Used test strips and lancets are considered biohazardous. Dispose used test strips and lancets into approved biohazard container.

From Vein

Venous whole blood drawn into only a sodium heparin blood collection tube must be used for testing. Mix well before use. DO NOT use venous whole blood collected in sodium fluoride blood collection tubes for testing. This may cause inaccurate results

Used lancets and test strips are considered biohazardous. Please discard them according to the Healthcare Professional's instructions.

HOW TO TEST BLOOD

- Check dates on test strip vial being used. Do not use if either the open vial Use By date or the date printed next to on vial label has passed, whichever comes first. See the test strip Instructions for Use for open vial Use By date. Clean hands and area to be lanced with an approved
- disinfectant (i.e. alcohol, soap and water, etc.). Dry thoroughly. Remove one test strip from vial. Close vial immediately. Use test strips quickly after
- removal from vial. With meter off, insert test strip Contact End (blocks facing up) into Test Port. Meter turns on. Keep test strip in meter until testing is finished.

To mark test as alternate site (forearm) result, press " ▶ " Button. ALT Symbol appears in Display. Press " ◀ " Button to remove ALT Symbol.

Note: If test strip has been out of the vial too long before testing, an error message appears upon insertion of the test strip into the meter. Release and discard old test strip. Use new test strip for testing.

12:00

15:30

Test Result

5 mimol/

Event Tag (Before Meal Icon - shown)

Top of Meter

Wait until Drop Symbol appears in Display. Obtain a blood sample. Allow drop to form (see Obtaining a Blood Sample).

With test strip still in meter, touch Sample Tip of test strip to top of blood drop and allow blood to be drawn into test strip. Remove Sample Tip from blood drop immediately after the meter beeps and begins

Note: If meter does not begin testing soon after touching Sample Tip to drop, discard test strip. Repeat test with new test strip and new blood drop. If problem persists, see Troubleshooting.

Dashes appear across Display to show meter is After the test is finished, result is displayed.

The Strip Release Button flashes. To mark the result with an Event Tag,

Event Tags must be turned on (see Set Event Tags, Ketone Alert and Test Reminders). The Event Tag icons flash. **Note:** Event Tag must be marked prior to

the removal of test trip from meter. Press "▶" or "◄" Button to go to the correct Event Tag. Press "•" Button to mark the test result with an event (icon

stops flashing). Event Tags are as follows:

• Before meal –test was taken just before a meal,

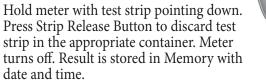
☆ After meal –test was taken after a meal,

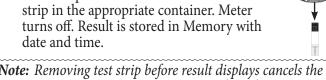
* Exercise – test was taken during or just after exercise,

Medications – medication taken may have affected test result, ⊗ Sick – test was taken when sick,

P Other – any other reason that the test is unique or different in some way (example: stress, drinking alcohol). In your logbook, note the reason that the test result was tagged. Seeing a result with this Event Tag in the meter Memory reminds you that there is more about this test result in the log book. Record result in log book.

Hold meter with test strip pointing down. Press Strip Release Button to discard test strip in the appropriate container. Meter turns off. Result is stored in Memory with date and time.





test. An error message appears and result is not stored in Memory. Retest with a new test strip and do not remove before result is displayed.

*Used lancets and test strips are considered biohazard*ous. Please discard them according to the Healthcare Professional's instructions.

SYSTEM AND LABORATORY TESTING

The most accurate glucose results come from using fresh, capillary whole blood from the fingertip. Capillary whole blood taken from the forearm or venous whole blood drawn into only a sodium heparin blood collection tube must be used

DO NOT use venous whole blood collected in sodium fluoride blood collection tubes for testing, as this may cause inaccurate

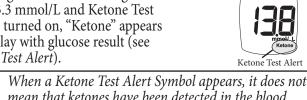
When comparing results between TRUE METRIX and a laboratory system, TRUE METRIX blood tests should be performed within 30 minutes of a laboratory test. If you have recently eaten, fingerstick results from the TRUE METRIX System can be up to 3.9 mmol/L higher than venous laboratory results.⁵ Diabetes experts have suggested that 95% of glucose meter results agree within 0.83 mmol/L of a laboratory system when the glucose concentration is less than 5.55 mmol/L, and within 15% of a laboratory system when the glucose concentration is 5.55 mmol/L or higher.6

SYSTEM OUT OF RANGE WARNING MESSAGES

12:00 Meter reads blood glucose levels from Lo 1.1 - 33.3 mmol/L If blood test result is less than 1.1 mmol/L, 12:00 "Lo" appears in meter Display. H, If blood test result is greater than 33.3 mmol/L, "Hi" appears in meter Display. ALWAYS repeat test to confirm Low ("Lo") and High ("Hi") results. If results still display "Lo" or "Hi", call the Doctor or Healthcare Professional immediately.

Note: "Lo" results are included in the Average as 1.1 mmol/L. "Hi" results are included as 33.3 mmol/L

If blood glucose test result is greater than 13.3 mmol/L and Ketone Test Alert is turned on, "Ketone" appears in Display with glucose result (see Ketone Test Alert).



mean that ketones have been detected in the blood. Perform a ketone test per the treatment plan, as prescribed by the Doctor or Healthcare Professional. **Note:** Ketone Test Alert can be turned on or off during Meter

6 METER SETUP

Note: If the meter turns off at any time during Set Up, go back to Step #1 under Meter Set Up and begin again.

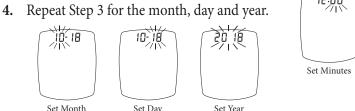
With meter off, press and hold "•" Button until the full Display is shown and a series of beeps sound (after about 10 seconds). Release "•" Button. Meter goes into Set Up.

SET TIME/DATE

Set Up.

2. The hour flashes. To change, press "▶" or "◄" Button on top of the meter to select the hour. Press "•" Button to set.

The minutes flash. To change, press "▶" or "
Button to select the minutes. Press "•" Button to set.



Note: Meter beeps every time a setting is confirmed ("•" Button is pressed).

SET EVENT TAGS, KETONE ALERT AND TEST REMINDERS Meter comes with Event Tags, Ketone Test Alert and all Test

Note: If the meter turns off at any time during Set Up, go back to Step #1 under Meter Set Up and begin again.

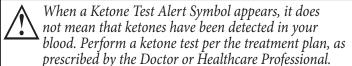
Event Tags are used to mark a test result that was taken during a specific event.

1. After setting the year, press "▶" or "◄" Button to turn Event Tags on or off. Press "•" Button to set, then the Meter goes to set Ketone Test Alert.

Ketone Test Alert

When a blood glucose result is over 13.3 mmol/L, the Ketone Test Alert is a reminder to check your ketones per the treatment plan.

2. Press "▶" or "◄" Button to turn Alert on or off. Press "•" Button to set, then the Meter goes to set Test Reminder.



Set Event Tags, Ketone Alert and Test Reminders, cont.

Test Reminder Up to four Test Reminders per day may be set. Reminder sounds at set time for 10 seconds. Meter comes with all Test Reminders off. To set the Test Reminders:

1. After pressing "•" Button to set Ketone Test Alert, Display shows first Reminder setting (A-1). To turn Reminder on, press "▶" Button. Press " ◀ " Button to turn Reminder back to off. Press "• "Button to set. When "on" is chosen, press "•" Button. The

hour flashes. Press "▶" or "◄" Button to set the hour. Press "•" Button to set. . The minutes flash. Press "▶" or "◄" Button to set the minutes. Press "•" Button to set.

Meter goes to the next Test Reminder. **4.** Turn Reminders on and repeat setting the time for next 3 Reminders (if needed).

Exit Set-Up Press and hold "•" Button until meter

turns off. Meter also turns off after 2 minutes of non-use. Set-up choices Test Reminder Symbo **Note:** If Test Reminders are set, the Test Reminder Symbol

appears in all Displays.

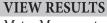
7 METER MEMORY VIEW AVERAGES (7-, 14-, AND 30-DAY)

The Averages feature allows you to view the average of all

blood glucose results within a 7-, 14-, or 30-day period. Control Test results are not included in the Averages. 1. With meter off press and release M07-d

"•" Button. Display scrolls through 7-, 14-, and 30-day Average values. Meter turns off after 2 minutes if no buttons are pressed

MO7-d AVG **Note:** If there are no Average values, three dashes are displayed for 7-, 14-, and 30-day Averages.



12:30

888

Top of Meter

are saved.

Meter Memory stores 500 results. Once Memory is full, the oldest result is replaced with the newest result.

1. Press and release "•" Button. Meter displays 7-, 14-, and 30-day Averages. Press and release " • " Button again to view most recent Control Test result in Memory. If there are no results in Memory, dashes appear with the Memory Symbol.

Press " ▶ " Button and release to advance to the most recent blood test. Press "▶" Button to scroll forward through results or " ◀ " Button to scroll backwards through results.

Test results marked as alternate site display **ALT** Symbol.

Control Test results display the Control Symbol. If no Control Test has been done, Display shows dashes and the Control Symbol.

Test results above 13.3 mmol/L display Ketone Test Alert Symbol, when Ketone Test Alert is turned on during Set Up. Tests marked with an Event Tag shows the Event Tag icon in the Display



8 SYSTEM CARE

• Store system (meter, control solution, test strips) in carrying case to protect from liquids, dust and dirt. Do not keep system in an area where it may be crushed (i.e. back pocket, drawer, bottom of bag, etc.).

Store in a dry place at room temperature 4° (4°C - 30°C) and at 10%-80% relative humidity (Non-condensing). **DO NOT FREEZE.**

 Allow system to sit at room temperature for 10 minutes before testing.

METER CARE, CLEANING/DISINFECTING

 Cleaning removes blood and soil, disinfecting removes infectious agents. Clean immediately after getting any blood

on the meter or if meter is dirty. Wipe meter with a clean, lint free cloth dampened with 70% isopropyl alcohol. Repeat if needed until all meter surfaces are visibly clean.

Clean and disinfect the meter before allowing anyone else to handle it. Do not clean the meter during a test.

• Cleaning (see To Clean the Meter) must occur before disinfecting (see *To Disinfect the Meter*). Never put meter in liquids or allow any liquids to enter the Test Port.

• Let meter air dry thoroughly before using to test. To Clean the Meter: 1. Wash hands thoroughly with soap and water.

2. Make sure meter is off and a test strip is not inserted. Using a lint-free cloth dampened with 70% isopropyl alcohol, wipe outside of meter until clean. **DO NOT USE BLEACH.** Rub the entire outside of the meter using

3 circular wiping motions with moderate pressure on the front, back, left side, right side, top and bottom of the meter. Make sure no liquids enter the Test Port or any other opening in the meter. Discard used wipes. 4. Verify that the meter is working properly

by performing an Automatic Self-Test. See

Automatic Self-Test on how to perform.



by performing an Automatic Self-Test. See Automatic Self-Test on how to perform.

Test Reminder

00.00

Set Hour

Set Minutes

08:30

7-Day Average

No Average

(M)10-28

12:30

138

Stop using the Meter and use the contact information at the bottom of the page for assistance if: Meter display appears cloudy or any display segments are missing

Markings on meter, including back meter label, are coming

off or are missing, Buttons are hard to push on the meter or do not work, • Unable to insert test strip into Test Port,

 Automatic Self-Test gives an error message. **CONTROL SOLUTION CARE**

Meter Care, Cleaning/Disinfecting, cont.

Clean the Meter before disinfecting

Using a cleaning/disinfecting agent wipe

with the active ingredients ammonium

chloride with up to 0.25% of each quater-

nary ammonium compound and isopropyl

alcohol (up to 55%) wipe the outside of the

Let meter air dry thoroughly before using to test.

Wash hands thoroughly again after handling meter.

meter, make sure that all outside surfaces

of the meter remain wet for 2 minutes.

Verify that the meter is working properly

To Disinfect the Meter:

(see *To Clean the Meter*).

DO NOT USE BLEACH.

• Write date first opened on control solution bottle label.

Discard if either 3 months after first opening or date printed next to \square on bottle label has passed, whichever comes first. Store at room temperature (2°C-30°C). **DO NOT FREEZE**

recap tightly. Discard any control solution bottles that appear cracked or leaking.

• After each use, wipe bottle tip clean and

TEST STRIP CARE

• Store test strips in original vial only. Do not transfer test strips to new vial or store test strips outside of vial. Write date first opened on test strip vial label. Discard vial

and unused test strips if either the open vial Use By date or the date printed next to \square on vial label has passed, whichever comes first. See the test strip Instructions for Use for open vial Use By date. Use of test strips past the Use By dates may give incorrect results. Close vial immediately after removing test strip.

Store in a dry place at room temperature

(4°C-30°C) at 10%-80% relative humidity (Non-condensing). **DO NOT FREEZE.** • Do not reuse test strip.

Do not bend, cut or alter test strips in any way.

• Discard any test strip vials that appear cracked or broken. DO NOT transfer test strips to a new vial or store outside of the vial.

LANCING DEVICE CARE AND CLEANING Clean immediately after getting any blood on the lancing device

or if lancing device is dirty. Clean lancing device before allowing anyone else to handle it.

• Do not clean lancing device if there is a lancet inside. Remove lancet from lancing device before cleaning.

are visibly clean. Let lancing device air dry thoroughly before using to test. Replace End Cap. Gently pull back Arming Barrel and press the Trigger Button. A click will be heard if

handling the lancing device. Jse contact information at the bottom of page for assistance if:

• End Cap does not go back on,

Arming Barrel does not click when gently pulled back.

A meter with a low battery displays Battery Symbol while continuing to function. A meter with a dead battery displays Battery Symbol, beeps, and then turns off. To replace battery:

Lift tab on Battery Door.

one hand with Battery Door facing down, tap meter gently on the palm of your other hand to loosen and remove battery. Discard old battery into appropriate

container. Insert new battery, positive ("+") side facing up. Close Battery Door.

Press "•" Button to turn meter on. Check time, date, Event Tags, Ketone Test Alert and Test Reminders (see *Meter Set Up*). If meter does not turn on, check that battery was installed properly. If not, remove and reinsert battery. Turn meter on by

Note: If battery is out of meter or dead too long, meter may reset to original factory settings. Verify settings are correct after replacing battery by going into Meter Set Up and checking time, date, Ketone Testing Alert, and Testing Reminders. Change if needed. Results in Memory are not deleted and time and date on the results does not change if battery is dead or removed for any length of time.

for downloading results to a computer, DO NOT plug the USB cable end into an adaptor for an electrical outlet or use any other type of charger. Trying to recharge the battery or power the meter by plugging into an adaptor for an electrical outlet may cause meter to catch on fire and/or battery may explode.

Do not dispose of battery in fire. Do not take apart or attempt to recharge battery. Dispose according to local regulations.

9 PERFORMANCE CHARACTERISTICS

PRECISION: Precision describes the variation between results. There are two types of precision results measured, repeatability (using blood) and ntermediate precision (using control solution).

Repeatability: N=100 Mean (mmol/L) 2.4 4.8 8.0 11.3 17.8 SD (mmol/L) 0.09 0.16 0.24 0.39 0.49 3.9 3.3 3.0 Intermediate Precision: N=100 Mean (mmol/L) 2.1 6.4 18.4 SD (mmol/L) 0.1 0.2 0.6 3.2 3.4 4.3

SYSTEM ACCURACY: Diabetes experts have suggested that 95% of glucose meter results should agree within ± 0.83 mmol/L of the medical laboratory values at glucose concentrations below 5.55 mmol/L and within \pm 15% of the medical laboratory values at glucose concentrations at or above 5.55 mmol/L. The tables below show how often healthcare professionals (HCP) and users achieve these goals using capillary fingertip and forearm blood samples when glucose results are not fluctuating. The laboratory reference instrument is the Yellow Springs Instrument (YSI).

99.3% of TRUE METRIX fingertip values performed by healthcare professionals (HCP) fell within 0.83 mmol/L of the YSI results at glucose levels < 5.55 mmol/L and within 15% at glucose levels \geq 5.55

Fingertip Samples (HCP vs. YSI) for glucose concentrations < 5.55 mmol/L

Within ± 0.28 mmol/L	Within ± 0.56 mmol/L	Within ± 0.83 mmol/L
99/156 (63.5%)	135/156 (86.5%)	155/156 (99.4%)
Fingertip Samples (HCP vs. YSI) for glucose concentrations \geq 5.55 mmol/L		
Within ± 5%	Within ± 10%	Within <u>+</u> 15%
207/444 (46.6%)	364/444 (82%)	441/444 (99.3%)

Fingertip Samples for glucose concentrations between 1.1-33.3 mmol/L Within ± 0.83 mmol/L and ± 15% 596/600 (99.3%)

Parkes Error Grid: 100% of individual fingertip glucose measured values performed by healthcare 00% of TRUE METRIX forearm values performed by healthcare professionals (HCP) fell within

0.83 mmol/L of the YSI results at glucose levels < 5.55 mmol/L and within 15% at glucose levels ≥ 5.55

Forearm Samples (HCP vs. YSI) for glucose concentrations < 5.55 mmol/L

Within ± 0.28 mmol/L	Within ± 0.56 mmol/L	Within ± 0.83 mmol/L
13/41 (31.7%)	26/41 (63.4%)	41/41 (100%)
Forearm Samples (HCP vs. YSI) for glucose concentrations ≥ 5.55 mmol/L		
Within ± 5%	Within ± 10%	Within ± 15%
17/59 (28.8%)	38/59 (64.4%)	59/59 (100%)
Forearm Samples for glucose concentrations between 1.1-33.3 mmol/L		
Within ± 0.83 mmol/L and ± 15%		
	Within \pm 0.83 mmol/L and \pm 15	%

Parkes Error Grid: 100% of individual forearm glucose measured values performed by healthcare

96.4% of TRUE METRIX venous values performed by healthcare professionals (HCP) fell within 0.83 mmol/L of the YSI results at glucose levels < 5.55 mmol/L and within 15% at glucose levels > 5.55

Venous Samples (HCP vs. YSI) for glucose concentrations < 5.55 mmol/L + 0.28 mmol/L + 0.56 mmol/I + 0.83 mmol/L 16/50 (32%) 39/50 (78%) **Venous Samples (HCP vs. YSI) for glucose concentrations** ≥ 5.55 mmol/L Within + 5% Within + 10% 33/174 (19%) 100/174 (57 5%) 166/174 (95 4%)

Within \pm 0.83 mmol/L and \pm 15% Parkes Error Grid: 100% of individual venous glucose measured values performed by healthcare

professionals fell within Zone A of the Parkes Error Grid (PEG).

99% of TRUE METRIX fingertip values performed by users fell within 0.83 mmol/L of the YSI results at glucose levels < 5.55 mmol/L and within 15% at glucose levels

Fingertip Samples (User vs. YSI) for glucose concentrations < 5.55 mmol/L

enous Samples for glucose concentrations between 1.1-33.3 mmol/I

within ± 0.28 mmol/L	# 0.56 mmol/L	# 0.83 mmol/L
9/18 (50%)	17/18 (94.4%)	18/18 (100%)
Fingertip Samples (User vs. Y	\overline{SI}) for glucose concentrations \geq	5.55 mmol/L
Within <u>+</u> 5%	Within <u>+</u> 10%	Within <u>+</u> 15%
39/82 (47.6%)	65/82 (79.3%)	81/82 (98.8%)
Fingertip Samples for glucose	concentrations between 1.1-33.3	3 mmol/L
	Within \pm 0.83 mmol/L and \pm 15	%
	99/100 (99%)	

Parkes Error Grid: 100% of individual fingertip glucose measured values performed by users fell within one A of the Parkes Error Grid (PEG) 98% of TRUE METRIX forearm values performed by users fell within 0.83 mmol/L of the YSI results at glucose levels < 5.55 mmol/L and within 15% at glucose levels

Forearm Samples (User vs. YSI) for glucose concentrations < 5.55 mmol/L

Within <u>+</u> 0.28 mmol/L	Within ± 0.56 mmol/L	Within <u>+</u> 0.83 mmol/L
21/41 (51.2%)	32/41 (78%)	41/41 (100%)
Forearm Samples (User vs. YSI) for glucose concentrations \geq 5.55 mmol/L		
Within ± 5%	Within ± 10%	Within <u>+</u> 15%
21/59 (35.6%)	39/59 (66.1%)	57/59 (96.6%)
Forearm Samples for glucose concentrations between 1.1-33.3 mmol/L		
Within \pm 0.83 mmol/L and \pm 15%		
	98/100 (98%)	

USER PERFORMANCE EVALUATION: A study evaluating glucose values from fingertip capillary blood samples obtained by 100 lay persons showed the following results: 100% within \pm 0.83 mmol/L of the medical laboratory values at glucose concentrations below 5.55 nmol/L and $\overline{98.8\%}$ within \pm 15% of the medical laboratory values at glucose concentrations at or above

Parkes Error Grid: 100% of individual forearm glucose measured values performed by users fell within

SYSTEM SAFETY INFORMATION

The TRUE METRIX meter was tested and found to comply with the electromagnetic emission and nmunity requirements as specified in IEC 60601-1-2 Edition 4.0. The meter's electromagnetic pission is low. The TRUE METRIX has met the following requirements of 60601-1-2. Edition 4.

EMC Test	Compliance Information
Radiated Emissions	CISPR 11 Class B limits
Conducted Emissions Voltage	Not applicable
Radiated RF EM Fields	10v/m, 80 MHz — 2.7 GHz, 80% AM at 1 kHz
Proximity fields from RF wireless communications equipment	Per table 8.10
Power Frequency Magnetic Fields	30 A/m, 50 Hz and 60 Hz
Electrical Fast Transients / Bursts	Not applicable
Surges	Not applicable
Conducted Disturbances induced by RF fields	Not applicable
Voltage Dips and Voltage Interruptions	Not applicable
Electrostatic Discharge	+/-8kV contact ; +/-15kV air discharges.

1) After inserting test strip, meter does not turn on. Test strip inserted upside Remove test strip. down or backwards Re-insert correctly Remove test strip. Re-insert Test strip not fully inserted Test strip fully into meter. Test strip error Repeat with new test strip. Dead or no battery Replace battery. Battery positive ("+") side

must face up.

Contact for assistance.

10 TROUBLESHOOTING

?) After applying sample, test does not start/meter does not beep or begin testing.

Battery in backwards

Meter error

Repeat test with new Sample drop too small test srip and larger drop. Repeat test with new test strip. Sample applied after two apply sample within 2 minutes minute shut-off of inserting test strip. Test Strip Error Repeat with new test strip. Meter Error Contact for assistance.

Use contact information at the bottom of the page for assistance

MESSAGES Reason Action

Display Repeat with new test strip, using capillary whole blood from the Invalid finger, forearm or venous whole blood collected only in a sodium Haematocrit heparin blood collection tube. If error persists, contact for assistance. Move meter and test strips to Temperature area between 5°C-40°C; wait error 10 minutes for system to Too cold/ reach room temperature Too hot before testing. Sample not Retest with detected or new test strip and using wrong larger sample. test strip Used test strip; Repeat with new test strip. Make est strip outsid sure Sample Tip of test strip of vial too long: ouched top of sample drop. If er-Sample on top o or persists, contact for assistance. test strip. Meter Contact for assistance. error Retest with new test strip. Test strip error or very high f error persists, contact for assistance. blood glucose If symptoms such as fatigue, excess uriresult (higher nation, thirst, or blurry vision are found, follow a Doctor or Healthcare Profes-33.3 mmol/L) sional's advice for high blood glucose. Retest with new test strip. Test strip Make sure result is disremoved played <u>before</u> during test removing test strip. E-9 Contact for assistance. error Low: About 50 tests can be done Low or before battery dies. dead Dead: Battery Symbol appears battery and beeps before meter turns off.

If error message still appears, any other error message appears, or troubleshooting does not solve the problem, contact for assistance.

Broken

Display

Out of range

High results

33.3 mmol/L

Low results

< 1.1 mmol/L

15:00

15:00

Do not use meter

for testing.

Contact for assistance.

Retest with new test strip.

If result is still

"Hi" (High)

"Lo" (Low)

contact a Doctor or

Healthcare Professional

immediately.

ELECTROMAGNETIC COMPATIBILITY nterference from the meter to other electronically driven equipment is not

emission is low. The TRUE METRIX has met the following	ng requirements of 60601-1-2, Edition 4:
EMC Test	Compliance Information
Radiated Emissions	CISPR 11 Class B limits
Conducted Emissions Voltage	Not applicable
Radiated RF EM Fields	10v/m, 80 MHz – 2.7 GHz, 80% AM at 1 kHz
Proximity fields from RF wireless communications equipment	Per table 8.10
Power Frequency Magnetic Fields	30 A/m, 50 Hz and 60 Hz
Electrical Fast Transients / Bursts	Not applicable
Surges	Not applicable
Conducted Disturbances induced by RF fields	Not applicable
Voltage Dips and Voltage Interruptions	Not applicable
Florence testic Dischause	1 / Old souts at 1 / 15 M six disabours

operation of the device. Do not use the meter in a very dry environment, especially one in which enthetic materials are present. Oo not use the TRUE METRIX meter close to sources of strong electromagnetic adiation, as these may interfere with the proper operation of the meter.

anticipated. The electromagnetic environment should be evaluated prior to

Do not use electrical equipment, including antennas, closer than 12 inches to any part of the TRUE METRIX meter, including cables specified by the **Blood Glucose Monitoring System Components**

TRUE METRIX Blood Glucose Monitoring Meter TRUE METRIX Blood Glucose Test Strips

TRUE METRIX Control Solution • Lancing Device • Sterile Lancet Git may contain one or more of the components above. Other accessories may negatively affect EMC performance. No adverse events to the Patient and Operator are anticipated due to

lectromagnetic disturbances because all electrical components of the RUE METRIX meter are fully enclosed.

Note: Use non-rechargeable 3V lithium battery (#CR2032).

2. Turn meter over. While holding meter in

pressing "•" Button. Contact for assistance if problem persists.

Battery is not rechargeable. If you have a cable or a cradle

Battery might explode if mishandled or incorrectly replaced.

BACK PAGE

To Clean the Lancing Device: Wash hands thoroughly with soap and Remove End Cap. Clean with cleaning agent. Repeat as needed until all surfaces

the lancing device is functioning properly. Wash hands thoroughly again after

• Markings on lancing device are coming off, • Trigger button hard to push,