TRUE METRIXBlood Glucose Monitoring System Instructions For Use (IFU)			
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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.

II 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 <u>before</u> 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 trouble speaking.
- High blood glucose (hyperglycaemia) symptoms may be intense thirst, a need to urinate often, dry mouth, vomiting, and headache.
- 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.

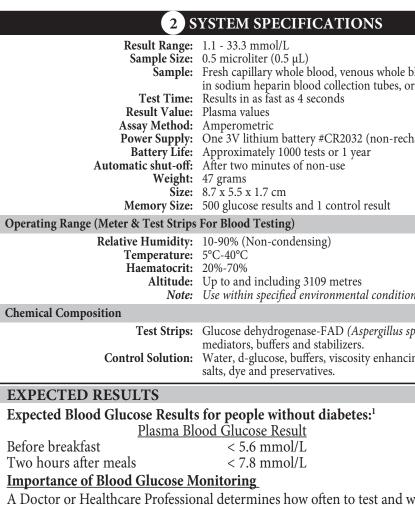
FOR HEALTHCARE PROFESSIONALS:

- 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

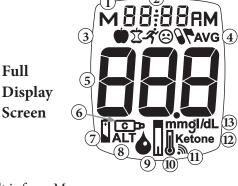
- Joslin Diabetes Center. Goals for Blood Glucose Control [Electronic Version]. Retrieved June 8, 2015 from http://www.joslin.org/info/Goals-for-Blood-Glucose-Control.html. FDA Public Health Notification: Use of Fingerstick Devices on More than One Person Poses Risk for Transmitting Blood Borne Pathogens: Initial Communication Update 11/29/2010 [Electronic Version]. Retrieved February 22, 2012 from http://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/ucm224025.htm. Atkin, S. H., Dasmahapatra, A., Jaker, M.A., Chorost, M. I., Redd, S., Fingerstick Glucose Determination in Shock. Annals of Internal Medicine, 114:1020-1024, 1991. U.S. Food and Drug Administration. Blood Glucose Meters, Getting the Most Out of Your Meter. [Electronic Version].
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Data on file.





- Display Screen Shows results, messages, user prompts, information.
- 2 Test Port Insert Test Strip here, contact blocks facing up.
- 3 Strip Release Releases test st for disposal.
- **Battery Door**
- Use one non-re positive ("+") anging Battery).
- **5** Meter Label Contains serial number of meter.
- **B** Data Contacts



- Result is from Memory
- Time, Date Event Tag Symbols
- 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.)

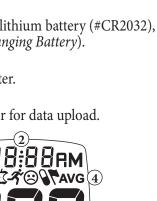


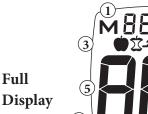
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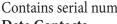
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p nere, contact i
Button
rip after testing
echargeable 3V side up (see <i>Cha</i>
l number of met



Result Range: 1.1 - 33.3 mmol/L Sample Size: 0.5 microliter (0.5 μL) Sample: Fresh capillary whole blood, venou in sodium heparin blood collection Test Time: Result Value: Result Value: Plasma values Assay Method: Amperometric Power Supply: One 3V lithium battery #CR2032 (Battery Life: Approximately 1000 tests or 1 year Automatic shut-off: After two minutes of non-use Weight: 47 grams Size: 8.7 x 5.5 x 1.7 cm Memory Size: 500 glucose results and 1 control re Operating Range (Meter & Test Strips: For Blood Testing) Relative Humidity: 10-90% (Non-condensing) Temperature: 5°C-40°C Haematocrit: 20%-70% Altitude: Up to and including 3109 metres Note: Use within specified environmental Chemical Composition Test Strips: Glucose dehydrogenase-FAD (Asp mediators, buffers and stabilizers. Control Solution: Water, d-glucose, buffers, viscosity salts, dye and preservatives. EXPECTED RESULTS Expected Blood Glucose Results for people without diabetes: Plasma Blood Glucose Result	tubes, or control solution non-rechargeable) esult conditions only. ergillus sp.), enhancing agent, enhancing agent, st and what the target results within target cose levels. Keeping h diabetes. NEVER are Professional.	Steric Do Not Resterilise Single Use Only CONTROL CONTROL CONTROL CONTROL Control Solution (1) (2) (3) Control Level SN Serial Number Attention! Caution! Use By Date Image: Storage Temperature Range Storage Temperature Range Storage Humidity Range Image: Storage Temperature Range Image: Storage Te	 Meter comes with pre-set time and date. The Excetone Test Alert, and all Test Reminders are of the meter for the first time or after a battery chattime, date, Event Tags, Alert and Reminders, an needed (see <i>Meter Set Up</i>). The meter turns on when a test strip is inserted in or when "•" Button is pressed (see <i>Meter Memory Up</i>). Meter turns off when the test strip is released on the meter, "•" Button is pressed, or after 2 min Turning the Ketone Test Alert on sets a remind ketones per your treatment plan when a blood gover 13.3 mmol/L. Test Reminders are set like an alarm clock to so 10 seconds to remind you to test. Up to four Test per day may be set. Event Tags allow you to tag your blood glucose to the following events: Before meal -test was taken just before a m the following -test was taken after a meal, for the following -test was taken during or just after the following -test was taken during or just after the follow of the meter and the test is un in some way (example: stress, drinking alcologbook, note the reason that the test result Seeing a result with this Event Tag in the meter and the test is un in some way (example: stress, drinking alcologbook, note the reason that the test result seeing a result with this Event Tag in the meter and the test is un in some way (example: stress, drinking alcologbook, note the reason that the test result seeing a result with this Event Tag in the meter and the test result seeing a result with this Event Tag in the meter and the test result seeing a result with this Event Tag in the meter and the test and the test result seeing a result with this Event Tag in the meter and the test result seeing a result with this Event Tag in the meter and the test result seeing a result with this Event Tag in the meter and the test and the test result seeing a result with this Event Tag in the meter and the test and the test
	OUR SYSTEM		Tagging results helps track the effect specific ev
METER Top of Meter	TEST STRIP	Top of Test Strip	have on your blood glucose test results. Event T assist you and your Doctor or Healthcare Profes
			managing your diabetes.
 (* * "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). (* * "Button Thrn meter on to view Average values, to view results in Memory, to access Meter Set Up, to turn on Event Tags in Memory, to access 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). (* * "Button There are 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). (* * Decrease 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). (* * Decrease 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). (* * * * * * * * * * * * * * * * * * *	 Contact End - In facing up. Sample Tip - Tou blood or control s Display. Note: Insert test strip blood or control solod or control solod or control solod or control sample Placement Correct Allow sample drog ing begins (meter Do not smear or solo not apply blood Do not apply blood Do not insert Sam damage meter. 	(2) more (1) asert into Test Port with contact blocks ach Tip to top of drop of sample (fresh solution) <u>after</u> Drop Symbol appears in the p into meter <u>before</u> touching Sample Tip to ol solution drop.	QUALITY CONTROL TESTINGTo 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. AUTOMATIC SELF-TEST 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 any segments are missing in the Display is first turned on, do not use the meter for Contact for assistance.
Shows results, messages, user prompts, information. ② Test Port	1 Lot Number (Lot ing for assistance	T) - Used for identification when contact-	
Insert Test Strip here, contact blocks facing up. 3 Strip Release Button Releases test strip after testing for disposal. 4 Battery Door Use one non-rechargeable 3V lithium battery (#CR2032), positive ("+") side up (see <i>Changing Battery</i>). 5 Meter Label Contains serial number of meter. 6 Data Contacts Connects meter with computer for data upload. Full Display Screen 9 u0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	 Use By Dates (Discard vial and Use By date or the passed, whicheve for Use for open view of test st Dates may g date product Control Test Rar Test result must fail CONTROL SOLUTION) - Write date first opened on vial label. unused test strips if either the open vial e date printed next to a on vial label has er comes first. See the test strip Instructions vial Use By date. trips or control solution past the Use By give incorrect test results. Discard out-of- ts and test with new products. mge - Range of numbers in which Control all to assure the system is working properly.	 If meter damage is suspected (meter was drowet, etc.) Note: It is important to perform Control Tests we one level of TRUE METRIX Control Solution for control solution are available for Control tact information at the bottom the page for tion on how to obtain control solution. Ranges printed on test strip vial label are Test results only and are not suggested level
 Result is from Memory Time, Date Event Tag Symbols Result is from 7-, 14-, or 30-Day Average Test Result Control Symbol Alternate Site (ALT) Symbol Drop Symbol - Apply blood or control solution Test Reminder Symbol Test Reminder Symbol Ketone Test Alert Symbol Units of Measure (Note: Shows both mmol/L and mg/dL in full Display. Unit of measure is factory set and cannot be changed.) 	 contacting for ass 2 Use By Dates (Discard bottle if e printed next to comes first. 3 Control Solution testing at least 2 l information at th 		 <i>glucose. Do not drink control solution.</i> How to Test Control Solution Use ONLY TRUE METRIX Control Solution w 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 a on bottle label; test strips - after open vial Use By Date (see Test Strip Instructions for Use) on date next to a on vial label.) Discard expired products and use new products.

GETTING STARTED

ETTING STARTED	How To Test Control Solution, cont.
	2. Allow control solution, vial of test strips and meter to
time and date. The Event Tags, Test Reminders are off. Before using	adjust to room temperature. Write date first opened on
e or after a battery change, check the	both control solution bottle label and test strip vial label
ert and Reminders, and update as	when using for the first time.3. Gently swirl or invert control solution bottle to mix.
).	3. Gently swirl or invert control solution bottle to mix. DO NOT SHAKE!
a test strip is inserted into the Test Port	4. Remove one test strip from vial. Close test strip vial imme-
ssed (see Meter Memory and Meter Set	diately. Use test strip quickly after removal from vial.
	5. Insert test strip into Test Port. Meter
test strip is released or removed from	turns on.
pressed, or after 2 minutes of non-use.	Note: If test strip has been out of the vial too long
Alert on sets a reminder to check your	before testing, an error message appears
nt plan when a blood glucose result is	<i>upon insertion of the test strip into the me-</i> <i>ter. Release and discard old test strip. Use</i> Insert Test Strip
	new test strip for testing
e an alarm clock to sound a tone for	
to test. Up to four Test Reminders	6. Wait until Drop Symbol appears in Display. Keep test strip in meter until testing
	is finished.
ag your blood glucose results to link	Drop Symbol
	<i>Note:</i> If test strip is removed before testing is finished, an error
s taken just before a meal,	message appears. Release and discard old test strip. Use
taken after a meal,	new test strip for testing.
ken during or just after exercise, ation taken may have affected test	7. With cap removed, turn control solution
ation taken may have affected test	bottle upside down. Squeeze one drop of
when sick, or	control solution onto a clean tissue. Wipe
son that the test is unique or different	off bottle tip and discard tissue.
e: stress, drinking alcoĥol). In your	8. Gently squeeze a drop of control solution onto a small piece of unused aluminum foil Discard Control Solution Drop on Tissue
son that the test result was tagged. his Event Tag in the meter Memory	or clear plastic wrap. Dispose after use.
re is more about this test result in	9. With test strip still in meter, touch Sample
	Tip of test strip to top of drop of control
k the effect specific events may	solution. Allow drop to be drawn into test strip. Remove test strip from drop when meter
se test results. Event Tagging may or or Healthcare Professional with	beeps and begins testing.
of of freatmeate Professional with	10. Dashes appear across the Display to show
	meter is testing.
TESTING	Note: If meter does not beep and begin testing soon after drawing
liable results, the f quality control	up sample, release and discard test strip. Repeat test with
hat the System is	new test strip. If problem persists, see Troubleshooting.
ting technique	11. Compare meter result to
	Control Test range printed
Insert Test Strip	on test strip vial label for Control Solution
ST	vou are using. If result is in
performed by the	range, system can be used
ip is inserted correctly	for testing blood. If result
Test Port.	does not fall within range,
perly if: Full Display	repeat test using a new test strip.
ars, then	CEP mmol/ L
ne upper	Control Symbol (Example only. Does not
nd then,	represent actual Control Test ranges)
ins to blink.	<i>Note: Control Test result shows the Control Symbol in the Display.</i>
rs in the Display, the Drop Symbol	▲ If Control Test result is outside range test again. If
test. See <i>Troubleshooting</i> see contact information	<i>If Control Test result is outside range, test again. If</i> <i>result is still outside range, system should not be used</i>
	for testing blood. Contact for assistance (see contact
	<i>information at the bottom of the page).</i>
Error Message	12. After result is shown, Strip Release
re missing in the Display when meter	Button flashes. Hold meter with test strip pointing down. Press Strip Release Button
do not use the meter for testing.	to release and discard test strip into
ance.	appropriate container. Meter turns off.
	<i>Note: Removing test strip before result displays cancels the test.</i>
ng Control Tests to check the perfor-	An error message appears and the result is not stored in
erformed:	<i>Memory. Retest with a new test strip and do not remove before result is displayed.</i>
g the system for the first time,	
testing technique is good,	
ng a vial of test strips, vial of test strips	
vial of test strips, lly high or low,	
pened or exposed to extreme	5 TESTING BLOOD
ity, performance of the system is needed	OBTAINING A BLOOD SAMPLE
performance of the system is needed, pected (meter was dropped, crushed,	Refer to lancing device Instructions for Use for detailed in-
,,	structions.
rform Control Tests with more than	\land The lancing device is for single patient use ONLY.
AETRIX Control Solution. Three levels	<i>For cleaning your lancing device see lancing device's</i>
re available for Control Tests. Use con-	<i>Instructions for Use. Wash your hands thoroughly with</i>
the bottom the page for more informa-	<i>soap and warm water after handling the meter, lancing device, or test strips. Contact with blood presents an</i>
in control solution.	infection risk.
test strip vial label are for Control	Never share lancets or lancing device. Lancets are for single
nd <u>are not</u> suggested levels for blood rink control solution.	use only. Do not re-use.
הוהג נטחורטו גטועווטאו.	• To help prevent false high results, wash hands before using the system to test blood, especially after fruit has been
ition	handled.
IX Control Solution with the TRUE	From Fingertip
E METRIX Test Strips.	1. Prepare fingertip by washing hands in warm, soapy water.
ol solution label and o not use control	Rinse well. Dry thoroughly. 2. Place end of lancing device equipped with a
if either Use By Date	lancet against tip of finger. Lance fingertip.
olution - 3 months after	3. Set lancing device aside. To help blood drop form, lower
next to 🛛 on bottle r open vial Use By	hand to waist level, gently massaging finger from palm
nstructions for Use) or	to fingertip. Allow blood drop to form for testing. Apply sample to test strip Sample Tip.
label.) Discard expired	4. After testing, recap and remove used lancet from lancing
v products.	device. Discard used lancet into appropriate container.
	Treat used lancets as a biological risk. Dispose used lancets
	<i>w in approved container.</i>

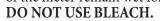
Obtaining a Blood Sample, cont.	SYSTEM AND LABORATORY TESTING	Set Event Tags, Ketone Alert and Test Reminders, cont.
Tips for Forearm Sampling	The most accurate glucose results come from using fresh,	Test Reminder
 Important Notes Regarding Forearm Testing⁴ Check with the Doctor or Diabetes Healthcare Professional 	capillary whole blood from the fingertip. Capillary whole	Up to four Test Reminders per day may be set.
to see if forearm testing is appropriate.	blood taken from the forearm or venous whole blood drawn	Reminder sounds at set time for 10 seconds.
• Results from the forearm are not always the same as results	into only a sodium heparin blood collection tube must be used	Meter comes with all Test Reminders off. To set the Test Reminders:
from the finger.	for testing.	1 After pressing ", "Button to set Ketone Test
• Use finger for testing instead of forearm for more accurate results:	DO NOT use venous whole blood collected in sodium fluoride blood collection tubes for testing, as this may cause inaccurate	Alert, Display shows first Reminder setting
~ Within 2 hours of eating, exercise, or taking insulin, ~ If blood glucose may be rising or falling rapidly or their	results.	(A-1). To turn Reminder on, press " ► "
results often fluctuate,	When comparing results between TRUE METRIX and a	Button. Press " ◀ " Button to turn Reminder
~ If the patient is ill or under stress,	laboratory system, TRUE METRIX blood tests should be	back to off. Press "• " Button to set.
~ If the glucose result may be low or high,	performed within 30 minutes of a laboratory test. If you have	2. When "on" is chosen, press "•" Button. The Set Hour
~ If symptoms of low or high glucose levels are not evident.	recently eaten, fingerstick results from the TRUE METRIX	hour flashes. Press "▶" or "◀" Button to set the hour. Press "•" Button to set.
1. Select area. Clean the area with soap and warm water, rinse or use an approved disinfectant. Dry thoroughly.	System can be up to 3.9 mmol/L higher than venous laboratory results. ⁵ Diabetes experts have suggested that 95% of glucose	3. The minutes flash. Press " ▶ " or " ◄ " Button
 Rub area vigorously or apply a warm, dry compress to 	meter results agree within 0.83 mmol/Lof a laboratory system	to set the minutes. Press •• "Button to set.
increase blood flow.	when the glucose concentration is less than 5.55 mmol/L,	Meter goes to the next Test Reminder.
3. Lance forearm. Apply sample to Sample Tip.	and within 15% of a laboratory system when the glucose	4. Turn Reminders on and repeat setting the
4. Discard all biohazard materials into appropriate container.	concentration is 5.55 mmol/L or higher. ⁶	time for next 3 Reminders (if needed).
Used test strips and lancets are considered biohazardous. Dispose		Exit Set-Up
\mathbf{x} used test strips and lancets into approved biohazard container.	SYSTEM OUT OF RANGE WARNING MESSAGES	Press and hold "•" Button until meter turns off. Meter also turns off after
From Vein	\bigwedge	turns off. Meter also turns off after 2 minutes of non-use. Set-up choices
Venous whole blood drawn into only a sodium heparin blood		are saved
collection tube must be used for testing. Mix well before use.	Meter reads blood glucose levels from 1.1 - 33.3 mmol/L.	Test Reminder Symbol
DO NOT use venous whole blood collected in sodium fluoride	If blood test result is less than 1.1 mmol/L,	<i>Note:</i> If Test Reminders are set, the Test Reminder Symbol appears in all Displays.
blood collection tubes for testing. This may cause inaccurate results.	"Lo" appears in meter Display.	
Used lancets and test strips are considered biohazardous. Please discard them according to the Healthcare Professional's	If blood test result is greater than	7 METER MEMORY
Please discard them according to the Healthcare Professional's instructions.	33.3 mmol/L, "Hi" appears in meter Display.	VIEW AVERAGES (7-, 14-, AND 30-DAY)
	ALWAYS repeat test to confirm Low ("Lo")	The Averages feature allows you to view the average of all
HOW TO TEST BLOOD	and High ("Hi") results. If results still	blood glucose results within a 7-, 14-, or 30-day period. Con-
1. Check dates on test strip vial being used. Do not use if	display "Lo" or "Hi", call the Doctor or	trol Test results are not included in the Averages.
either the open vial Use By date or the date printed next to	Healthcare Professional <i>immediately</i> .	1. With meter off press and release
on vial label has passed, whichever comes first. See the		"•" Button. Display scrolls through 7-, 14-, and 30-day Average values.
test strip Instructions for Use for open vial Use By date.Clean hands and area to be lanced with an approved		 Meter turns off after 2 minutes
disinfectant (i.e. alcohol, soap and water, etc.). Dry	<i>Note: "Lo"</i> results are included in the Average as 1.1 mmol/L. " H " results are included as 3.3.3 mmol/I.	if no buttons are pressed. 7-Day Average
thoroughly.	"Hi" results are included as 33.3 mmol/L.	
3. Remove one test strip from vial. Close vial	If blood glucose test result is greater	Note: If there are no Average values, three dashes $m \Box 7 - d_{AVG}$
immediately. Use test strips quickly after		are displayed for 7-, 14-, and 30-day Averages.
removal from vial. 4. With meter off, insert test strip Contact	than 13.3 mmol/L and Ketone Test Alert is turned on, "Ketone" appears	
	in Display with glucose result (see	
End (blocks facing up) into Test Port.	Ketone Test Alert). Ketone Test Alert	No Average
until testing is finished.	When a Ketone Test Alert Symbol appears, it does not	VIEW RESULTS
	mean that ketones have been detected in the blood.	Meter Memory stores 500 results. Once Memory is full, the oldest
To mark test as alternate site (forearm)	Perform a ketone test per the treatment plan, as pre- scribed by the Doctor or Healthcare Professional.	result is replaced with the newest result.
result, press " \blacktriangleright " Button. ALT Symbol	· · · · · · · · · · · · · · · · · · ·	1. Press and release "•" Button.
appears in Display. Press " "Button to ALT Symbol	Note: Ketone Test Alert can be turned on or off during Meter	Meter displays 7-, 14-, and 30-day Averages. Press and release "•"
remove ALT Symbol.	Set Up.	Button again to view most recent
<i>Note:</i> If test strip has been out of the vial too long before testing,		Control Test result in Memory. If
an error message appears upon insertion of the test strip	6 METER SETUP	there are no results in Memory,
into the meter. Release and discard old test strip. Use new	Note: If the meter turns off at any time during	dashes appear with the Memory
test strip for testing.	Set Up, go back to Step #1 under Meter	Symbol.
5. Wait until Drop Symbol appears in Display.	Set Up and begin again.	 Press " ▶ " Button and release to advance to the most recent blood test.
Obtain a blood sample. Allow drop	1 With meter off process and hold " " Deutern	$Proce $ " \mathbb{R} " Button to scroll forward
to form (see <i>Obtaining a Blood Sample</i>). Apply Sample	1. With meter off, press and hold "•" Button until the full Display is shown and a series of	through results or " ◀ " Button to
6. With test strip still in meter, touch Sample	beeps sound (after about 10 seconds). Release	scroll backwards through results.
Tip of test strip to top of blood drop and	"•" Button. Meter goes into Set Up.	Test results marked as alternate site
allow blood to be drawn into test strip.	SET TIME/DATE	diamber ALT Symphol
Remove Sample Tip from blood drop immediately after the meter beeps and begins	 The hour flashes. To change, press " ▶ " or " ◄ " [2:00] Button on top of the meter to select the hour 	Control Test results display the Control
testing.	Dutton on top of the meter to select the noul.	Symbol. If no Control Test has been
	Press "•" Button to set.	done, Display shows dashes and the Ketone Test Alert Symbol.
Note: If meter does not begin testing soon after touching Sample	3. The minutes flash. To change, press " \blacktriangleright " or " \cdot " Puttern to calcut the minutes Press	Test results above 13.3 mmol/L display
Tip to drop, discard test strip. Repeat test with new test strip and new blood drop. If problem	"	Ketone Test Alert Symbol, when Ketone
persists, see Troubleshooting.	 * Button to select the finitutes. Pless * Button to set. 4. Repeat Step 3 for the month, day and year. 	Test Alert is turned on during Set Up.
		Tests marked with an Event Tag shows
7. Dashes appear across Display to show meter is		the Event Tag icon in the Display.
testing. Meter Testing		
8. After the test is finished, result is displayed. The Strip Release Button flashes.	Set Minutes	8 SYSTEM CARE
		• Store system (meter, control solution, test strips) in carry-
To mark the result with an Event Tag,	Set Month Set Day Set Year	ing case to protect from liquids, dust and dirt. Do not keep
Event Tags must be turned on (see Set Event Tags, Ketone Alert and Test Test Result	<i>Note: Meter beeps every time a setting is confirmed ("•" Button is pressed).</i>	system in an area where it may be crushed (i.e. back pocket drawer, bottom of bag, etc.).
Reminders). The Event Tag icons flash. $(2:30)$	Dunion is presseu).	• Store in a dry place at room temperature ***
		(4°C - 30°C) and at 10%-80% relative humidity
<i>Note:</i> Event Tag must be marked prior to the removal of test trip from meter.	CET EVENIT TACC IZETONE ALERT AND TEAT DELANDERS	(Non-condensing). DO NOT FREEZE.
	SET EVENT TAGS, KETONE ALERT AND TEST REMINDERS	Allow system to sit at room temperature for 10 minutes before testing.
Press ">" or "<" Button to go to the Event Tag (Before Meal Icon - shown)	Meter comes with Event Tags, Ketone Test Alert and all Test Reminders off.	METER CARE, CLEANING/DISINFECTING
correct Event Tag. Press • Button to		Cleaning removes blood and soil,
mark the test result with an event (icon	<i>Note: If the meter turns off at any time during Set Up, go back</i>	disinfecting removes infectious agents.
stops flashing). Top of Meter	to Step #1 under Meter Set Up and begin again.	Clean immediately after getting any blood
Event Tags are as follows:	Event Tags	on the meter or if meter is dirty. Wipe meter with a clean, lint free cloth dampened
 Before meal –test was taken just before a meal, After meal –test was taken after a meal, 	Event Tags are used to mark a test result that was taken	with 70% isopropyl alcohol. Repeat if need-
	during a specific event.	ed until all meter surfaces are visibly clean.
 Exercise – test was taken during or just after exercise, Medications – medication taken may have affected test result, 	1. After setting the year, press "▶" or "◄"	Clean and disinfect the meter before
\bigcirc Medications – medication taken may have affected test result, \bigcirc Sick – test was taken when sick,	Button to turn Event Tags on or off. Press	allowing anyone else to handle it.
 Other – any other reason that the test is unique or different 	"•" Button to set, then the Meter goes to Top of Meter	• Do not clean the meter during a test.
in some way (example: stress, drinking alcohol). In your	set Ketone Test Alert.	• Cleaning (see <i>To Clean the Meter</i>) must occur before disinfecting (see <i>To Disinfect the Meter</i>).
logbook, note the reason that the test result was tagged.	Ketone Test Alert	 Never put meter in liquids or allow any liquids to enter the Test Port
Seeing a result with this Event Tag in the meter Memory	When a blood glucose result is over 13.3 mmol/L, the Ketone Test Alert is a reminder to check your	• Let meter air dry thoroughly before using to test.
reminds you that there is more about this test result in the	ketones per the treatment plan.	To Clean the Meter:
log book. Record result in log book.	2 Dross " N" or " 1" Button to turn Alort on	1. Wash hands thoroughly with soap and water.
9. Hold meter with test strip pointing down.	or off. Press "•" Button to set, then the Me-	2. Make sure meter is off and a test strip is not inserted. Using a lint-free cloth
Press Strip Release Button to discard test strip in the appropriate container. Meter	ter goes to set Test Reminder.	not inserted. Using a lint-free cloth dampened with 70% isopropyl alcohol, wipe
turns off. Result is stored in Memory with	When a Ketone Test Alert Symbol appears, it does	outside of meter until clean. DO NOT USE BLEACH.
date and time.	not mean that ketones have been detected in your	3. Rub the entire outside of the meter using
	<i>blood.</i> Perform a ketone test per the treatment plan, as	3 circular wiping motions with moderate
<i>Note: Removing test strip before result displays cancels the</i>	prescribed by the Doctor or Ĥealthcare Professional.	pressure on the front, back, left side, right side,
<i>test. An error message appears and result is not stored in Memory. Retest with a new test strip and do not remove</i>		top and bottom of the meter. Make sure no liquids enter the Test Port or any other
before result is displayed.		opening in the meter. Discard used wipes.
		4. Verify that the meter is working properly
Used lancets and test strips are considered biohazard-		by performing an Automatic Self-Test. See
ous. Please discard them according to the Healthcare Professional's instructions.		Automatic Self-Test on how to perform.

BACK PAGE

Meter Care, Cleaning/Disinfecting, cont. To Disinfect the Meter:

1. Clean the Meter before disinfecting (see To Clean the Meter).

Using a cleaning/disinfecting agent wipe with the active ingredients ammonium chloride with up to 0.25% of each quaternary ammonium compound and isopropyl alcohol (up to 55%) wipe the outside of the meter, make sure that all outside surfaces of the meter remain wet for 2 minutes.



Let meter air dry thoroughly before using to test. 4. Wash hands thoroughly again after handling meter. 5. Verify that the meter is working properly by performing an Automatic Self-Test. See Automatic Self-Test on how to perform.

A <1 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

• 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. • After each use, wipe bottle tip clean and recap tightly.

• Discard any control solution bottles that appear cracked or leaking.

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 clea To Clean the Lancing Device:

1. Wash hands thoroughly with soap and water.

2. Remove End Cap. Clean with cleaning agent. Repeat as needed until all surfaces are visibly clean.

3. 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 the lancing device is functioning properly.

4. Wash hands thoroughly again after handling the lancing device.

Use contact information at the bottom of page for assistance if: • Markings on lancing device are coming off,

• Trigger button hard to push, • End Cap does not go back on,

• Arming Barrel does not click when gently pulled back.

CHANGING BATTERY

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:

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

1. Lift tab on Battery Door. **2.** Turn meter over. While holding meter in one hand with Battery Door facing down, tap meter gently on the palm of your

other hand to loosen and remove battery. **3.** Discard old battery into appropriate container. 4. Insert new battery, positive ("+") side

facing up. Close Battery Door.

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

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.

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

Battery might explode if mishandled or incorrectly replaced. 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 intermediate 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 1.16 0.24 0.39 0.49 3.9 3.3 3.0 3.4 2.7 %CV **Intermediate Precision:** N=100 Mean (mmol/L) 2.1 6.4 18.4 SD (mmol/L) 0.1 0.2 0.6 %CV 4.3 3.2 3.4

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).

FOR HEALTHCARE PROFESSIONALS

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 > 5.55

Fingertip Samples (HCP vs. YSI) for glucose concentrations < 5.55 mmol/L			
Within <u>+</u> 0.28 mmol/L	Within <u>+</u> 0.56 mmol/L	Within <u>+</u> 0.83 mmol/L	
99/156 (63.5%)	135/156 (86.5%)	155/156 (99.4%)	
Fingertip Samples (HCP vs. YSI) for glucose concentrations ≥ 5.55 mmol/L			
Within ± 5% Within ± 10% Within ± 15%		Within ± 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 <u>+</u> 0.83 mmol/L or <u>+</u> 15%			
50(1(00,00,20/)			

596/600 (99.3%) Parkes Error Grid: 100% of individual fingertip glucose measured values performed by healthcare rofessionals fell within Zone A of the Parkes Error Grid (PEG)

100% 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 <u>+</u> 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			
With ta . 50/	Within ± 5% Within ± 10% Within ± 15%		
within $\pm 5\%$	WILININ $\pm 10\%$	WILIIII <u>+</u> 13%	
17/59 (28.8%)	38/59 (64.4%)	59/59 (100%)	
17/59 (28.8%)	_	59/59 (100%)	
17/59 (28.8%)	38/59 (64.4%)	59/59 (100%) mmol/L	

Parkes Error Grid: 100% of individual forearm glucose measured values performed by healthcare onals fell within Zone A of the Parkes Error Grid (PEG).

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 \geq 5.55 mmol/L.

Venous Samples (HCP vs. YSI) for glucose concentrations < 5.55 mmol/L		
Within <u>+</u> 0.28 mmol/L	Within <u>+</u> 0.56 mmol/L	Within <u>+</u> 0.83 mmol/L
16/50 (32%)	39/50 (78%)	50/50 (100%)
Venous Samples (HCP vs. YSI) for glucose concentrations \geq 5.55 mmol/L		
Within <u>+</u> 5%	Within <u>+</u> 10%	Within <u>+</u> 15%
Within <u>+</u> 5% 33/174 (19%)	Within <u>+</u> 10% 100/174 (57.5%)	Within <u>+</u> 15% 166/174 (95.4%)
33/174 (19%)	_	166/174 (95.4%)

216/224 (96.4%) Parkes Error Grid: 100% of individual venous glucose measured values performed by healthcare rofessionals fell within Zone A of the Parkes Error Grid (PEG).

FOR CONSUMERS

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

.55 mmol/L.			
Fingertip Samples (User vs. YSI) for glucose concentrations < 5.55 mmol/L			
Witi <u>+</u> 0.28 n		Within <u>+</u> 0.56 mmol/L	Within <u>+</u> 0.83 mmol/L
9/18 (50%)	17/18 (94.4%)	18/18 (100%)
Fingertip Samples (User vs. YSI) for glucose concentrations ≥ 5.55 mmol/L			
Within	u <u>+</u> 5%	Within <u>+</u> 10%	Within <u>+</u> 15%
39/82 (4	47.6%)	65/82 (79.3%)	81/82 (98.8%)
Fingertip Samples for glucose concentrations between 1.1-33.3 mmol/L			
Within + 0.83 mmol/L or + 15%			

99/100 (99%)

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

≥ 5.55 mmol/L. Eastern Complex (Heastern VCI) for always concentrations < 5.55 mmal/L

Within	T17*41 *	
\pm 0.56 mmol/L	Within <u>+</u> 0.83 mmol/L	
32/41 (78%) 41/41 (100		
Forearm Samples (User vs. YSI) for glucose concentrations \geq 5.55 mmol/L		
Within ± 5% Within ± 10% Within ± 15%		
39/59 (66.1%)	57/59 (96.6%)	
Forearm Samples for glucose concentrations between 1.1-33.3 mmol/L		
Within ± 0.83 mmol/L or ± 15%		
1	32/41 (78%) for glucose concentrations ≥ 5 Within ± 10% 39/59 (66.1%) ncentrations between 1.1-33.3	

98/100 (98%) Parkes Error Grid: 100% of individual forearm glucose measured values performed by users fell within Zone A of the Parkes Error Grid (PEG).

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

10 TROUBLESHOOTING

1) After inserting test strip, meter does not turn on.		
REASON	ACTION	
Test strip inserted upside down or backwards	Remove test strip. Re-insert correctly.	
Test strip not fully inserted	Remove test strip. Re-insert Test strip fully into meter.	
Test strip error	Repeat with new test strip.	
Dead or no battery	Replace battery.	
Battery in backwards	Battery positive ("+") side must face up.	
Meter error	Contact for assistance.	
2) After applying sample, test does not start/meter does not beep or begin testing.		
REASON	ACTION	
Sample drop too small	Repeat test with new test srip and larger drop. Repeat test with new test strip.	
Sample applied after two minute shut-off	Repeat test with new test strip. Apply sample within 2 minutes 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		

11 MESSAGES			
Display	Reason	Action	
E-D	Invalid Haematocrit	Repeat with new test strip, using capillary whole blood from the finger, forearm or venous whole blood collected only in a sodium heparin blood collection tube. If error persists, contact for assistance.	
	Temperature error Too cold/ Too hot	Move meter and test strips to area between 5°C-40°C; wait 10 minutes for system to reach room temperature before testing.	
E-3	Sample not detected or using wrong test strip	Retest with new test strip and larger sample.	
E-3	Used test strip; Test strip outside of vial too long; Sample on top of test strip.	Repeat with new test strip. Make sure Sample Tip of test strip touched top of sample drop. If er- ror persists, contact for assistance.	
E-4	Meter error	Contact for assistance.	
E-5	Test strip error or very high blood glucose result (higher than 33.3 mmol/L)	Retest with new test strip. If error persists, contact for assistance. If symptoms such as fatigue, excess uri- nation, thirst, or blurry vision are found, follow a Doctor or Healthcare Profes- sional's advice for high blood glucose.	
E-6	Test strip removed during test	Retest with new test strip. Make sure result is dis- played <u>before</u> removing test strip.	
E-3	Communication error	Contact for assistance.	
	Low or dead battery	Low: About 50 tests can be done before battery dies. Dead: Battery Symbol appears and beeps before meter turns off.	
	Broken Display	Do not use meter for testing. Contact for assistance.	
00:51 12:00	Out of range - High results > 33.3 mmol/L - Low results < 1.1 mmol/L	Retest with new test strip. If result is still "Hi" (High) or "Lo" (Low) contact a Doctor or Healthcare Professional <i>immediately</i> .	

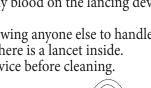
If error message still appears, any other error message appears, or troubleshooting does not solve the problem, contact for assistance.

12 SYSTEM SAFETY INFORMATION

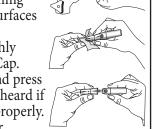
ELECTROMAGNETIC COMPATABILITY This meter meets the electromagnetic immunity requirements as per EN ISO 15197:2015. It meets the electromagnetic emissions requirements as per EN 61326 series. Interference from the meter to other electronically driven equipment is not anticipated. The electromagnetic environment should be evaluated prior to operation of the device.

Do not use the meter in a very dry environment, especially one in which synthetic materials are present. Do not use the meter close to sources of strong electromagnetic radiation, as these may interfere with the proper operation.



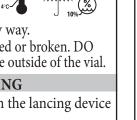


eaning.	<u>+</u> 0.20 mm01/ L
	16/50 (32%)
	Venous Samples (HCP vs.
TES I	Within <u>+</u> 5%
	33/174 (19%)
	Venous Samples for gluco
Rept	



EI-PH)

Batter



2°C

aller