

# Diabetes Care by ASCENSIA

## Competitive Meter Comparison Chart



Meter Features	CONTOUR® NEXT	CONTOUR® NEXT USB	CONTOUR® NEXT LINK	CONTOUR® NEXT EZ	BREEZE® 2	OneTouch® Ultra® 2	OneTouch® Ultra Mini®	OneTouch® Verio	OneTouch® Verio™ IQ	OneTouch® Verio Flex	Accu-Chek® Mobile	FreeStyle InsulinX®	FreeStyle Lite®	FreeStyle Precision Neo	Dario	BGStar	Source
<b>Simple Testing</b>																	
Minimum blood sample volume	0.6 µL	0.6 µL	0.6 µL	0.6 µL	1.0 µL	1.0 µL	1.0 µL	0.4 µL	0.4 µL	0.4 µL	0.3 µL	0.3 µL	0.3 µL	0.6 µL	0.3 µL	0.5 µL	UG pg.113 Website: <a href="http://myfreestyle.com.au/products/freestyle-optimum-neo-blood-glucose-ketone-monitoring-system/">http://myfreestyle.com.au/products/freestyle-optimum-neo-blood-glucose-ketone-monitoring-system/</a>
Test time countdown	5 seconds	5 seconds	5 seconds	5 seconds	5 seconds	5 seconds	5 seconds	5 seconds	5 seconds	5 seconds	5 seconds	The higher the blood glucose, the longer it takes to display the result (max: 60 sec)	5 seconds	5 seconds	6 seconds	6 seconds	UG pg.113 Website: <a href="http://myfreestyle.com.au/products/freestyle-optimum-neo-blood-glucose-ketone-monitoring-system/">http://myfreestyle.com.au/products/freestyle-optimum-neo-blood-glucose-ketone-monitoring-system/</a>
Message format	Plain-language messages	Plain-language messages	Plain-language messages	Symbols and error codes	Symbols and error codes	Plain-language messages and symbols	Symbols and error codes	Plain-language messages and symbols	Plain-language messages and symbols	Symbols and error codes	Plain-language messages and symbols	Plain-language messages and symbols	Symbols and error codes	Symbols and error codes	Plain-language messages on mobile app	Symbols and error codes	UG pg. 98 UG - section 13
Alternative site testing	Yes - on palm only	Yes - on palm only	Yes - on palm only	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	UG pg. 38 Test strip insert - pg. 1
<b>Convenience and Reliability</b>																	
Is Coding of test strip required?	No	No	No	No	No	Factory pre-set to code 25 - confirm code 25 prior to test	No manual coding. SmartCode25®	No	No	No	No	No	No	No	No	No	UG pg. 34 Website: <a href="http://myfreestyle.com.au/products/freestyle-optimum-neo-blood-glucose-ketone-monitoring-system/">http://myfreestyle.com.au/products/freestyle-optimum-neo-blood-glucose-ketone-monitoring-system/</a>
Can you reuse a test strip during a single test if more blood is needed?	Yes (Meter will display a written message to apply more blood) 	Yes (Meter will display a written message to apply more blood) 	Yes (Meter will display a written message to apply more blood) 	Yes (Meter will beep twice and display a strip under fill screen message if not enough blood) 	No	No	No	No	No	No	No	Yes (60 second countdown to apply more blood; meter will not test until full strip)	Yes (60 seconds to apply blood; meter will not test until strip is full)	Yes (5 seconds to apply blood; meter will not test until strip is full)	No	No	UG - section 7 and test strip insert - pg. 1
System Accuracy* at glucose concentration < 5.55 mmol/L (2013 Standard)	99.4% within ±0.56 mmol/L	100% within ±0.56 mmol/L	100% within ±0.56 mmol/L	100% within ±0.56 mmol/L	Data not available	Data not available	Data not available	Data not available	Data not available	100% within ±0.83 mmol/L	Data not available	Data not available	Data not available	Data not available	100% within ±0.83 mmol/L	Data not available	
System Accuracy* at glucose concentration ≥ 5.55 mmol/L (2013 Standard)	98.1% within ±10%	98.1% within ±10% 100% within ±15%	99.3% within ±10% 100% within ±15%	99.5% within ±10%	Data not available	Data not available	Data not available	Data not available	Data not available	99.3% within ±15%	Data not available	Data not available	Data not available	Data not available	99.5% within ±15%	Data not available	
System Accuracy* at glucose concentration < 4.2 mmol/L (2003 Standard)	98.7% within ±0.6 mmol/L	100% within ±0.56 mmol/L	100% within ±0.56 mmol/L	100% within ±0.6 mmol/L	98% within 0.8 mmol/L	84.5% within ±0.56 mmol/L	84.5% within ±0.56 mmol/L	100% within ±0.83 mmol/L	98.2% within ±0.67 mmol/L	Data not available	92% within 0.56 mmol/L	100% within 0.6 mmol/L	100% within 0.6 mmol/L	42% within ±0.56 mmol/L	Data not available	97% within ±0.56 mmol/L	UG pg. 117 Test strip insert - pg 1
System Accuracy* at glucose concentration ≥ 4.2 mmol/L (2003 Standard)	98.3% within ±10% 99.8% within ±15%	98.1% within ±10% 100% within ±15%	99.2% within ±10% 100% within ±15%	99.6% within ±10% 100% within ±15%	98% within ±20% No data given on accuracy within ±10% or ±15%	68.0% within ±10% 88.2% within ±15%	68.0% within ±10% 88.2% within ±15%	97.8% within ±0.83 mmol/L or ±15%	93.4% within ±10% 97.8% within ±15%	Data not available	96% within ±10% 99% within ±15%	95% within ±10% 99% within ±15%	95% within ±10% 99% within ±15%	87% within ±10% 98% within ±15%	Data not available	91% within ±10% 98% within ±15%	Test strip insert - pg 1
Battery life	1000 tests	Rechargeable: 150 tests/charge under normal operating conditions	Rechargeable: 2 weeks/charge under normal operating conditions (with send function on)	1000 tests	1000 tests	1000 tests	1000 tests	Info not available	Rechargeable: 1-2 weeks/charge	Info not available	500 tests (or approx. 1 yr)	3000 tests	500 tests	3000 tests	Powerless	1000 tests	UG - section 18
Battery type	3V lithium (2) CR2032 or DL2032	250mAh rechargeable lithium polymer battery, 3.4V-4.2V (5V input voltage)	250mAh rechargeable lithium polymer battery, 3.4V-4.2V (5V input voltage)	3V lithium (2) CR2032 or DL2032	3V lithium (1) CR2032	3.0 V lithium (2) CR2032	3.0 V lithium CR2032	Two replaceable AAA alkaline batteries	Rechargeable 3.7 V lithium polymer	One replaceable 3.0 Volt CR2032 lithium coin cell battery (or equivalent)	AAA (2)	3V lithium (3) (CR2032)	1 CR 2032 3V	3.0 V lithium (2) CR2032	Powerless	3V (2) CR2032	UG pg. 112 UG - section 18

\* All blood glucose meter systems met ISO 15197:2003 or ISO 15197:2013 accuracy requirements.

References: For the above referenced meters, their respective user guides should be referenced for all available features. Accu-Chek® Aviva User's Manual 09/09, Accu-Chek® Mobile User's Manual 12/10, BGStar™ Owner's Guide 08/11, iBGStar™ Owner's Guide 08/11, <http://www.ibgstar.us/what-is-ibgstar.aspx>, [http://www.ibgstar.us/default.aspx?sa=true&WT.mc\\_id=BGWB001](http://www.ibgstar.us/default.aspx?sa=true&WT.mc_id=BGWB001), <http://www.ibgstar.us/iphone-app.aspx>, FreeStyle® Lite Owner's Booklet 01/07, FreeStyle® InsulinX Owner's Booklet 2011, OneTouch® Ultra® 2 User Guide 09/12, OneTouch® UltraMini® User Guide 07/12, OneTouch® Verio™ IQ Owner's Booklet 07/11, Contour® Next EZ User Guide 06/14, Contour® NEXT User Guide 06/14, Breeze® 2 User Guide 04/08, Breeze® 2 Meter Carton 07/08, Contour® NEXT USB User Guide 07/12, Contour® NEXT Link User Guide 01/14. Ascensia Diabetes Care Canada Inc., Data on file.

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<b>Storage and Use</b>																	
Operating temperature range for meter	5-45°C	5-45°C	5-45°C	5-45°C	10-45°C	6-44°C	6-44°C	6-44°C	6-44°C	Data not available	10-40°C	4-40°C	4-40°C	10-50°C	10-45°C	10-40°C	UG pg. 112 UG - section 18
Humidity tolerance for meter	10-93%	10-93%	10-93%	10-93%	10-80%	10-90%	10-90%	10-90%	10-90%	10-90%	15-85%	5-90% (non-condensing)	5-90% (non-condensing)	10-90%	up to 90%	up to 90%	UG pg. 112 UG - section 18
Altitude (up to)	6,301 m	6,301 m	6,301 m	6,301 m	3,109 m	3,048 m	3,048 m	3,048 m	3,048 m	3,048 m	4,000 m	3,048 m	3,048 m	2,195 m	3,400 m	3,048 m	UG pg. 112 Test strip insert - pg. 1
Test strips (TS): length of life	Up to 24 months open or closed (based on expiry date on box)	Up to 24 months open or closed (based on expiry date on box)	Up to 24 months open or closed (based on expiry date on box)	Up to 24 months open or closed (based on expiry date on box)	Up to 24 months open or closed (based on expiry date on box)	One Touch® Ultra® Blue TS: 6 months after opening	One Touch® Ultra® Blue TS: 6 months after opening	One Touch® Verio® TS: 6 months after opening	One Touch® Verio® TS: 6 months after opening	OneTouch® Verio TS: 6 months after opening	Accu-Chek® Mobile Test Cassette: 3 months after opening	FreeStyle Lite® TS: No public data. Refer to expiration date	FreeStyle Lite® TS: No public data. Refer to expiration date	FreeStyle Precision® TS: No public data. Refer to expiration date	BGStar TS: 3 months after opening	BGStar TS: 3 months after opening	Strip insert Test strip insert - pg. 1
<b>Special Features</b>																	
Can you customize your target ranges?	Set high & low blood glucose limits and set target ranges for fasting, before meal, and after meal	Set high & low blood glucose limits and set target ranges for fasting, before meal, and after meal	Set high & low blood glucose limits and set target ranges for fasting, before meal, and after meal	Set personal high & low blood glucose limits	No	No	No	Set high & low blood glucose limits	Set low and before meal high blood glucose limits	Set high & low blood glucose limits	Set low and before meal high blood glucose limits	Weekly messages: set a high and low blood glucose limit	No	Low and high alerts, not customizable	No	No	UG pg. 21 UG - section 8
Ability to record carb intake and insulin doses?	No	Yes, log carb intake and insulin doses	No	No	No	No	No	No	No	No	No	Yes, calculate an insulin dose, store insulin and carb info	No	Insulin dose logging	No	No	UG - section 17
Offers markers to track when blood glucose test was done?	Autolog: Fasting marker and pre & post meal markers	Autolog: Fasting marker and pre & post meal markers	Autolog: Fasting marker and pre & post meal markers	Pre & post meal markers	No	Before meal and After meal flags	No	No	Before meal and After meal flags	No	Flags: General, before meal, and after meal markers	Before meal and after meal markers	No	No	Blood glucose tags: meals, exercise, bedtime	Pre & post meal tags	UG pg. 48-49 Website: <a href="http://mydario.com/wp-content/uploads/2014/06/Dario-User-Guide.pdf">http://mydario.com/wp-content/uploads/2014/06/Dario-User-Guide.pdf</a>
Has reminder alarms to remind you to test your blood glucose levels?	Reminder countdown set for anytime from 15 min - 24 hrs (can set in 15 min intervals)	Reminder countdown set for anytime from 15 min - 24 hrs (can set in 15 min intervals)	Reminder countdown set for anytime from 15 min - 24 hrs (can set in 15 min intervals)	Post-meal reminder alarms (2.5, 2.0, 1.5, 1.0 hrs)	No	No	No	No	No	No	Set up to 10 alarms. Countdown from 1, 2, or 3 hrs or set a time of day	12 reminders - test reminder, insulin reminder, or alarm. Select time of day, or countdown	Set up to 4 alarms for specific times of day	No	No	Set up to 7 reminder alarms for specific times of day	UG pg. 85-109 Website: <a href="http://www.onetouch.com/sites/default/files/Web%20Ready%20Artwork_V1_06932401A_OTVF_OB_US_en_zug_R3_full_web.pdf">http://www.onetouch.com/sites/default/files/Web%20Ready%20Artwork_V1_06932401A_OTVF_OB_US_en_zug_R3_full_web.pdf</a>

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