

FORA[®] Diamond GD50



Accurate Results Every Time



**100% of results in
Zone A of Consensus
Error Grid (CEG)***

*EN ISO 15197:2015 requires ≥ 99 % in zones A and B.

Diabetes Management Made Simple

- New Intuitive Sensing Technology (IST) with clinically validated accuracy
- Easy to use with no coding
- Requires only 0.5 μ L blood sample
- Results in just 5 seconds



FORA[®] Diamond GD50

Diabetes Management Made Simple.

Created for patients who are simply concerned with accurate and precise blood glucose measuring needs. Every detail is designed to excel in meeting patient's basic needs: a high quality and easy-to-use blood glucose monitoring system, and a lancing device with comfortable blood sampling.



Accurate Results Every Time

FORA[®] Diamond GD50 is equipped with leading technologies that guarantees clinically accurate results. The innovative **Intuitive Sensing Technology (IST)** improves the accuracy and precision of the measurements by applying advanced measuring techniques.



FORA® Lancing Device

- Depth indicator with six different settings
- Cocking control and release button to improve sampling control
- Lancet ejector

FORA® Diamond GD50

- Interference-free measurements with New Intuitive Sensing Technology (IST)
- Easy-to-use with intuitive operation
- Fast and accurate results in 5 seconds
- Strip ejection design reduces the risk of cross-infection

FORA® Diamond Test Strips

- High accuracy and precision with GDH-FAD enzyme
- Improved blood sampling with Advanced Sip-in (ASSI) technology
- No-coding



New Intuitive Sensing Technology (IST)

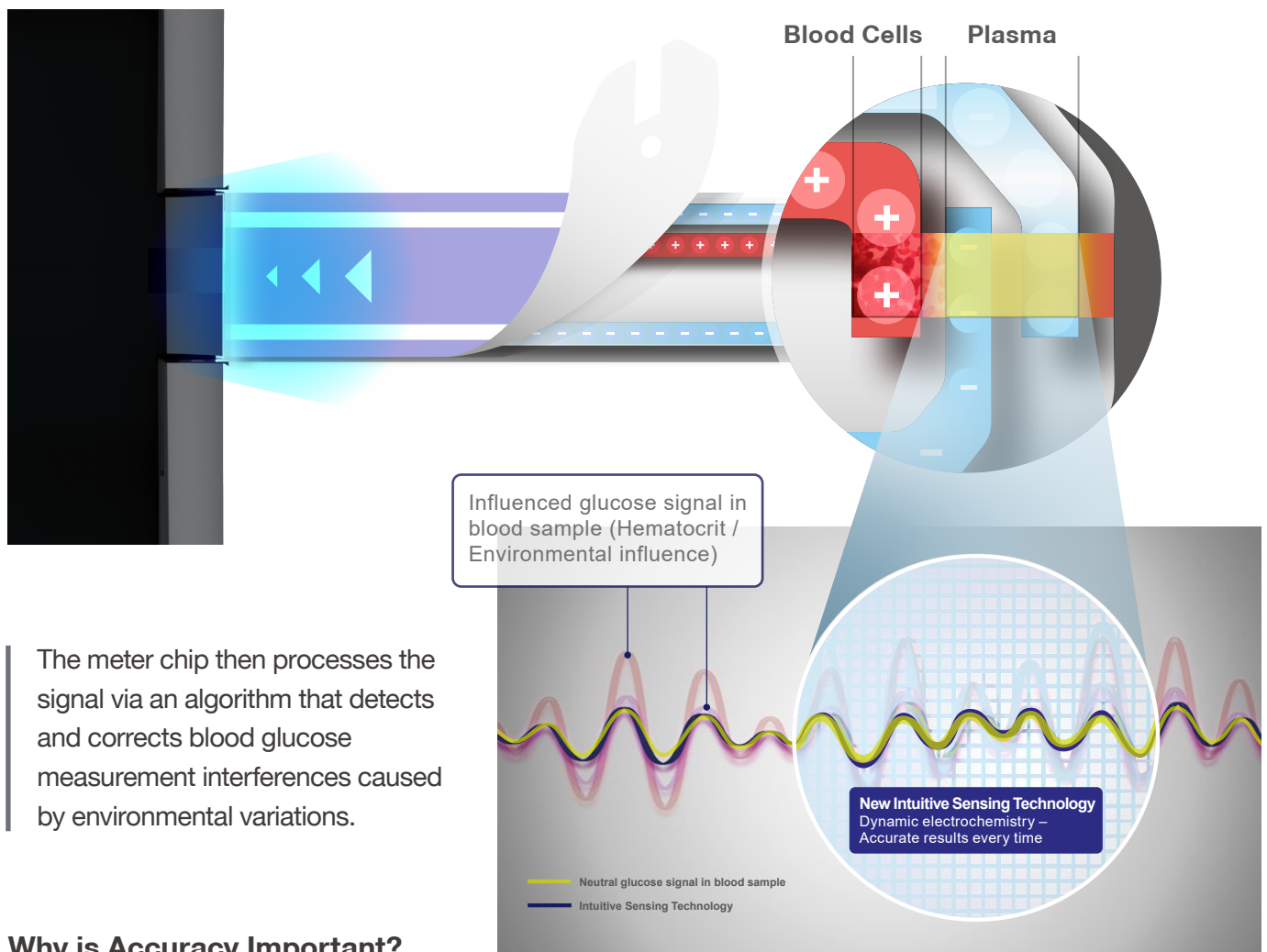


What is New Intuitive Sensing Technology (IST)?

The New Diamond IST is the second generation of Diamond blood glucose monitoring systems. Detecting common sources of interference in the blood sample is crucial for accurate blood glucose measurement results. FORA® Diamond GD50 uses the **New Intuitive Sensing Technology (IST)**, an innovative technology included in all Diamond meters. The meter applies Dynamic Electrochemistry in blood glucose measurements to identify sources of interference, providing accurate and precise results.

How Intuitive Sensing Technology (IST) Works?

The meter detects the blood sample and sends advanced signals into the test strip. The electrically charged signals polarize the blood into blood cells and plasma, detecting distortions caused by the hematocrit. This allows the meter to provide accurate results, free from variation interference from the sample.



Why is Accuracy Important?

Blood glucose meter accuracy is important for several reasons:

- Improved reliability in your data and trust in your current diabetes management plan.
- Helps you understand and/or anticipate potential lab results when going for your A1c checkup.
- Accurate meters are able to detect episodes of hypo- or hyperglycemia.
- Can help with decision-making surrounding medication dosages.

The electrochemistry is essentially utilized to correct the hematocrit levels that could lead to wrongful blood glucose meters in the blood. A POC device displaying inaccurate blood glucose levels can potentially lead to incorrect diets, or worse, incorrect medication dosages which could be fatal.

Outstanding Accuracy

FORA® Diamond's innovative technologies are backed up by strong evidence. What was great, just got better.



System Accuracy Evaluation

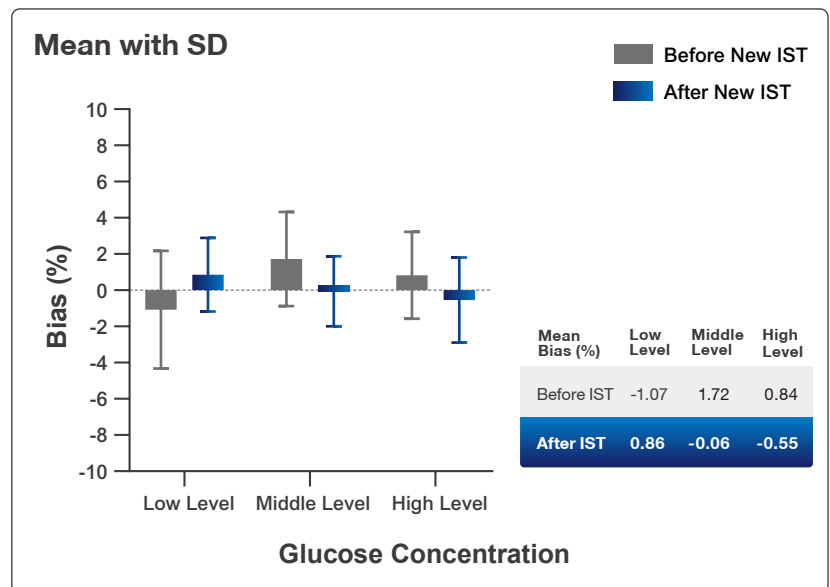
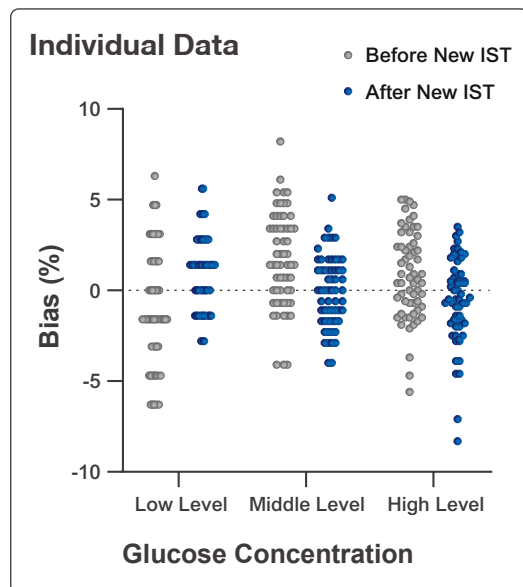
This report is intended to compare the performance of glucose measurement function for FORA® Diamond BGMS before and after the New IST based on the analysis from the existing data.

Sample Distribution

The glucose concentration intervals were determined with YSI-2300 and adjusted by supplementing the venous blood sample with dextrose solution. Three samples were prepared with glucose concentrations in the intervals: 1) Low (<100 mg/dL), 2) Middle (100~200 mg/dL), 3) High (>500 mg/dL).

Data Analysis

Accuracy: Bias (%) of individual result compared to the value of the reference method (YSI-2300) is calculated. The results are presented by graphs for individual values or their mean with SD.



Precision: for each glucose interval, the test results obtained from Diamond BGMS were calculated to determine its Mean, Standard Deviation (SD), and Coefficient of Variation (CV%)

		Low Level (<100mg/dL)	Middle Level (100-200mg/dL)	High Level (>500mg/dL)
Before New IST	Mean	63.3	149.5	540.5
	SD	2.07	3.82	12.87
	CV	3.27%	2.55%	2.38%
After New IST	Mean	72.6	174.9	560.9
	SD	1.45	3.39	13.23
	CV	2.00%	1.94%	2.36%

Conclusion

This study shows that the FORA® Diamond Blood Glucose Monitoring System with the New IST upgrade has superior performance for accuracy and precision.

For accuracy, the Mean Bias (%) has shown to be lower across all blood glucose levels.

For precision, the new device has a lower SD at low levels. At middle and high levels, it has a considerably smaller CV.

Reference

1. ForaCare Laboratory (2014). *Test Plan Report*. Document No. FC-800-4281100-001-C06.
2. ForaCare Laboratory (2019). *Test Plan Report*. Document No. FC03-0006315.

Specifications



*The product image is in real size.

FORA® Diamond GD50 Meter

Model No.	GD50a
Unique Features	Universal Tone® IST Technology
Dimensions	88 (H) X 52 (W) X 16.9 (D) mm
Weight	50.8g (without Battery)
Ketone Warning	Yes. if ≥ 240 mg/dL (13.3 mmol/L)
Meal Tag	Yes. General / Pre-meal (AC) / Post-meal (PC)
Daily Alarm	4 Alarms
Strip Indicator Light	Yes
Strip Ejection	Yes
Connectivity	GD50a: Cable Link (RS-232 to USB)
Memory Capacity	450 Memory Sets
Operating Condition	+10°C ~ +40°C
Storage Condition	-20°C ~ +60°C
Precision	CV < 5%
Day Average	7-, 14-, 21-, 28-, 60-, 90-Day
Power source	1 AAA Battery
Clinically Validated	Meet EN ISO 15197:2015 Standard



FORA® Diamond Test Strips

Model No.	ACS044
Technology	ASSI Technology
Enzyme Type	GDH-FAD
Coding Type	No-Coding
Blood Sample Volume	0.5 μ L
Reaction Time	5 Seconds
Measuring Range	20 ~ 600 mg/dL (1.1 ~ 33.3 mmol/L)
HCT Range	20% ~ 60%
Applicable Sample Type	Capillary; Venous
Application	Dialysis; General Patient; Gestational

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