- A precision system
- Highly flexible: For HbA1c, CRP, Glucose and Hemoglobin
- NGSP/IFCC certified HbA1c test
- Up to four tests from one sample
- Superior results in laboratory quality
- Individual hematocrit correction
- Easy to use
- Fully automated measurement

Efficient Operation Combined with Convenient Use

- Fully automated system – no manual steps required during measurement
- Single cartridge containing all reagents for parameter of interest
- Precalibrated tests – no time-consuming calibration – cost saving
- Measurement of up to four tests from one sample
- Software available in several languages (ENG, GER, FRA, PORT, RUSS, NOR)
- Additional languages available on request
- Intuitive software – no special knowledge needed
- Selectable units – no manual calculation
- Expandable parameter portfolio

Technical Specifications

Measurement principle	Photometric/Turbidimetric
Barcode identification	Automatic barcode scan for reagents; barcode scanner for samples optionally
Thermostatic control	Measurement constantly at 37°C
Connectivity	RS232 connection; USB connection via adapter
Selectable units	e. g. for HbA1c mmol/mol, % DCCT
Dimensions	200 mm (W) x 150 mm (H) x 170 mm (D)
Weight	4 kg

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DiaSys
Diagnostic Systems

DiaSys
Diagnostic Systems GmbH
Alte Strasse 9
65558 Holzheim
Germany

Phone: +49 (0) 64 32 / 91 46-0
Fax: +49 (0) 64 32 / 91 46-32
E-Mail: systems@diasys.de
www.diasys-diagnostics.com

CHOOSING QUALITY.

820116 | November 2015

InnovaStar®
POC Testing in Lab Quality

Precise. Flexible. Easy.
The New Dimension for HbA1c, CRP, Hemoglobin and Glucose POC Testing.

DiaSys
Diagnostic Systems

CHOOSING QUALITY.

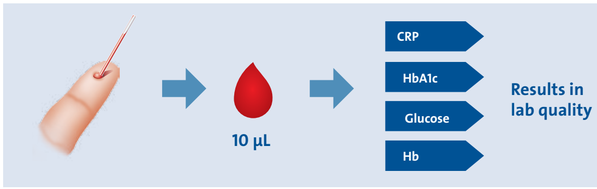
InnovaStar® – POC Testing at a New Level

Easy to use, superior precision, rapid results: InnovaStar® brings POC testing to a new quality level. A fully automatic, compact analyzer for daily practice, providing the performance you would expect from a laboratory analyzer.

InnovaStar® – The Flexible Solution

Efficiency will be a decisive factor in the physicians' ability to confront future challenges such as the rapid rise in the number of diabetics. This requires fast and easy to use instruments that produce precise and reliable results. InnovaStar® offers a broad range of superior features, guaranteed to make your daily routine much easier.

Parameter-dependent InnovaStar® processes whole blood, serum and plasma. One decisive advantage of InnovaStar® is its ability to carry out multiple tests from a single 10 µL whole blood sample.



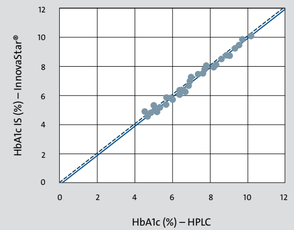
Benefits of the 4 in 1 Principle:

- High flexibility – individual configuration of up to 4 tests from 1 sample
- Less harmful for the patient – blood withdrawal only once
- Time saving and cost-effective – immediate results, no multiple visits

Laboratory Quality in its Most Compact Form

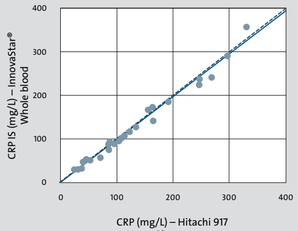
InnovaStar® represents a system where reagent and device perfectly match. The underlying technology and reagents in established DiaSys quality are identical to the ones used on clinical laboratory analyzers. As for lab analyzers HbA1c determination on InnovaStar® is carried out according to DCCT/NGSP and IFCC guidelines. These preconditions ensure high quality results with reliable precision.

Method Comparison InnovaStar® vs HPLC



n = 40; Passing/Bablok Regression:
Y = 1.00 • X - 0.16 mg/L; r = 0.990

Method Comparison InnovaStar® vs Lab Analyzer



n = 92; Passing/Bablok Regression:
Y = 0.986 • X - 0.252 mg/L; r = 0.996

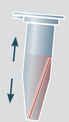
Precision in Decision Range

	HbA1c IS	CRP IS	Glucose IS	Hemoglobin IS
Mean	6.24 %	10.6 mg/L	125 mg/dL	9.12 g/dL
SD	0.06 %	0.22 mg/L	1.59 mg/dL	0.06 g/dL
CV	0.90 %	2.10 %	1.27 %	0.07 %

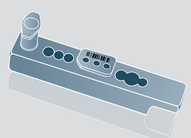
Quick Guide

1. Sampling
Take 10 µL whole blood with a capillary.

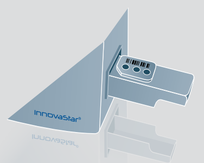
2. Preparation
Place the filled capillary into the sample cup.



3. Mixing
Close the lid and mix gently by inversion.



4. Loading slider
Place the sample cup in position 1. Reagent car-tridges are placed in any other position.



5. Measurement
Inserting the slider starts measurement automatically. Results are available after 2–7 minutes (depending on the parameter).

Unique Features

Individual Hematocrit Correction

To ensure comparability of test results to laboratory analyzers InnovaStar® automatically provides a sample individual hematocrit correction for CRP and Glucose. By this correction plasma values are calculated even if whole blood samples are used. Thereby, reliable results in laboratory quality are ensured.

Convenient Cartridge Use

- Filled with the same DiaSys quality reagents as for lab analyzers
- Identical technology as clinical chemistry analyzers
- Barcoded cartridges – no usage of expired reagents, automatic test recognition by barcode
- Pre-calibrated tests – no extra calibration costs
- Excellent calibration stability

Glucose/Hemoglobin as Two-In-One Test

As an additional feature, Glucose and Hemoglobin can be determined by using only one cartridge within a single run.

- Less harmful for the patient: Only one blood withdrawal for two analytes
- Quantitative Glucose and Hemoglobin results with high precision in one run
- Lower costs

Test Characteristics

	HbA1c IS	Glucose IS	Hemoglobin IS	CRP IS
Measuring range	3–14 % (DCCT) 9–130 mmol/mol (IFCC)	15–800 mg/dL 0.83–44.4 mmol/L	5–25 g/dL 3.1–15.5 mmo/L	5–400 mg/L (wb)* 2–160 mg/L (plasma)
Specimen	Whole blood	Whole blood	Whole blood	*Whole blood Plasma
Sample volume	Up to four tests with 10 µL			
Time to result	7 min	6 min	2 min	7 min
Hematocrit correction	n.a.	Yes	n.a.	Yes
Traceability	IFCC, DCCT/NGSP	Reference method GC-IDMS	Hemoglobin-cyanide reference method (ICSH)	ERM®-DA474/IFCC reference material