



IGS100

Implantable Glucose Sensor

IGS100 implantable glucose sensor for real-time monitoring is the newest release in WPI's line of amperometric biosensors. The sensing tip is slightly larger than a half-millimeter in diameter, allowing for subcutaneous, intra peritoneal, or blood vessel placement. Its flexible yet rugged body lends itself nicely to chronic implantation.

IGS100's unique guarded tip helps resist bio-fouling, greatly enhancing the life of the sensor. Depending on measurement

conditions, IGS100 can be used *in vivo* for weeks or even months. When not in use, it has a six-month shelf life.

Compatible with amplifiers in WPI's **Apollo** series and with the handheld **MicroC** potentiostat, IGS100 sensors are packaged in pairs, complete with instructions on care and use.



Specifications

In Vitro Precision

Coefficient of variation (CV) $\leq 5\%$

Glucose Range

36 - 450 mg/dl (or 2-25 mM/L)

Response Time

100-300 sec

Interference Species

Acetaminophen, ascorbic acid, uric acid

Overall Length

5 cm

Sensor Size

Diameter: 0.6 mm

Active sensor length: 1.5 mm

Flex body: 35 mm

Reference Electrode

Ag/AgCl integral

Polarization Voltage

0.7 V vs. Ag/AgCl

Sensor Life

3-4 months in solutions at room

temperature under continuous polarization;

15-30 days *in vivo*.

Shelf Life

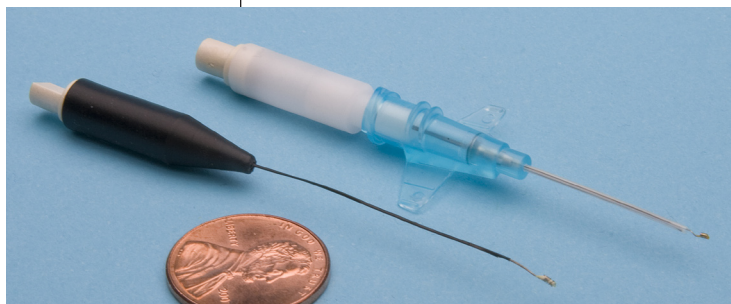
6 months

Operating Conditions

20° to 40° C (68° to 104° F)

Storage Conditions

4° to 25° C (50° to 77° F)



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