



B.IV4.G.FC Strip-type biosensor For various bioanalytical applications A product of Jobst Technologies

Benefits & Characteristics

- Enzyme-based amperometric measurement
- Excellent long-term stability
- Reference, counter and blank electrodes on-chip
- Suitable for dip-in applications
- For industrial applications

- Outstanding reliability
- Fast response time
- Gamma and beta sterilization compatible
- Small size

Illustration



1) For actual size, see dimensions

Technical Data

Dimensions (L/L1 x W/W1 x H in mm)		58.8/4 x 2.5/0.6 x 0.2
Measurement principle:		Enzymatic amperometric (oxydase enzymes and H ₂ O ₂ oxydation)
Working electrode:		Platinum covered with enzyme membrane
Blank electrode:		For background compensation
Reference electrode:		Silver / silver chloride
Counter electrode:		Platinum
Measurable analytes:		Glucose
Operating measurement range at +37°C:	Glucose:	0.1 mM to 50 mM
Sensitivity at 37°C:	Glucose: Notes:	typical 0.4 nA/mA - measured in acetate buffer at 37°C - contact IST AG for buffer composition - other measurement ranges on request

- info on other analytes on request



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Sterilization:	Irradiation (beta, gamma) - recommended dose: < 25 kGy - sensitivity increases according to applied dose - lifetime decreases according to applied dose Initial bioburden > 1cfu per sensor Do not use organic solvents For more information contact IST AG		
Time (t ₉₀ %) to first measurement after storage at 37 °C:	~ 30 min		
Time response (t ₉₀ %) at 37°C:	< 90 s		
Temperature influence:	~ 3.8 %/°C on signal		
Storage conditions:	+4 °C to +35 °C, desiccated		
Shelf life at recommended storage conditions:	> 6 months (from delivery)> 2 years from fabrication		
Operational life time:	Glucose:	>120 days at 20 mM > 50 days at 50 mM	
	Notes:	 measured in acetate buffer at 37 °C life time may vary on other buffer systems 	
Operating Temperature:	15-42 °C		
pH Range:	6-8		
Drift at 37 °C:	< 5%/day		
Suitable media:	bicarbonate, acetate, imidazole buffers - to be used in buffered media only - buffer must contain chloride, [Cl-] ca. 110 mM - not suitable for direct use in tap water or DI-water - for information on buffer systems please contact IST AG		
Electrical connection:	FC: compatible with 0.5-mm pitch FFC/FCP ZIF connectors IDC: JST SUR Header 4 Pos 0.8 mm Female		

General note:

Performance data in this document was determined in acetate buffer at 37°C, pH 7 and normal atmospheric conditions. All parameters may vary on other media.

Product Photo



Two B.IV4 sensors: left showing pin, right showing sensor



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Disclaimer

Not for medical, diagnostics and use on humans. For evaluation use only. For more information contact IST AG.



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