



# B.IV4

## Strip-type biosensor

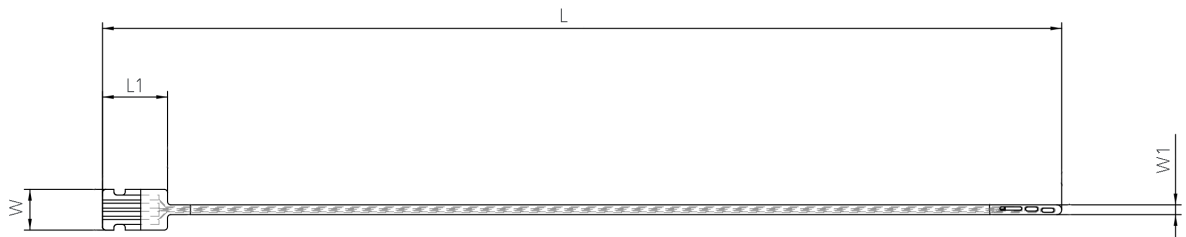
### For various bioanalytical applications

#### 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<sup>1)</sup>



1) For actual size, see dimensions

#### Technical Data<sup>2)</sup>

Dimensions (L/L1 x W/W1 x H in mm)	58.8/4 x 2.5/0.6 x 0.2
Working electrode:	Platinum covered with enzyme membrane
Blank electrode:	For background compensation
Reference electrode:	Silver / silver chloride
Counter electrode:	Platinum
Measurable analytes <sup>3)</sup> :	Glucose, Lactate <sup>3)</sup> , Glutamine <sup>3)</sup> , Glutamate <sup>3)</sup>
Operating measurement range at +25 °C (for extended measurement ranges please contact IST AG) <sup>4)</sup> :	Glucose: 0.05 mM to 25 mM / 0.01 to 4.5 g/l
	Lactate: 0.02 mM to 15 mM / 0.002 to 1.5 g/l
	Glutamine: 0.04 mM to 20 mM / 0.006 to 3g/l
	Glutamate: 0.04 mM to 10 mM / 0.006 to 1.5 g/l
Sterilization:	Beta or gamma sterilization is possible (25 kGy typical) Sensitivity increases upon radiation; lactate sensors life time is reduced Initial bioburden < 1 cfu per sensor
Time to first measurement after storage at +37 °C:	~ 15 min
Time response (t <sub>90</sub> %) at +37°C <sup>4)</sup> :	< 25 s



Temperature influence:	~ 3.5 %/°C
Storage conditions:	+4 °C to +35 °C, desiccated
Shelf life:	> 6 months (at recommended storage conditions)
Operational life time <sup>5)</sup> :	> 4 weeks continuous operation

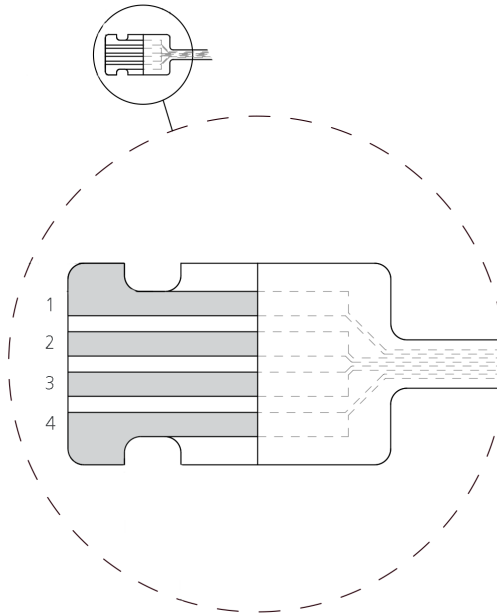
2) All performance data was obtained using an acetate buffer. For more information about medium composition please contact IST AG

3) Upon request

4) Parameters may vary depending on the medium type

5) For glucose only. May decrease by higher analyte concentration and / or less dissolved oxygen in medium. Sensors for lactate, glutamine and glutamate exhibit different lifetimes. For more information contact IST AG

## Pin assignment



1	2	3	4
Reference	Counter	Blank	Glucose

## Order information

Order code	B.IV4.G.FC 390.00148
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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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