

## SPUTTERING ELECTROCHEMICAL SENSOR

Type: AC9C.WSP

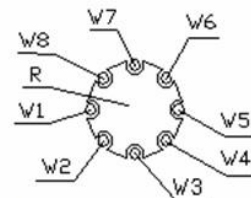
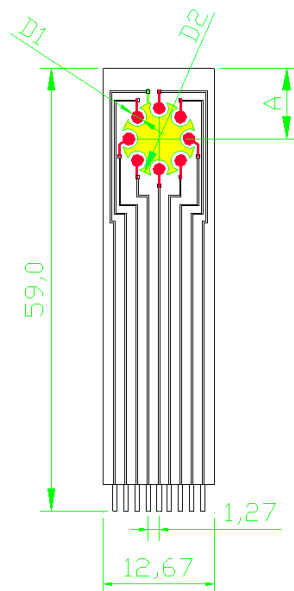
### Description

The sensor is formed on a corundum polished ceramic base. On to this surface eight working electrodes, and the reference electrode are applied by sputtering. The working electrodes is made of gold. At the end of the sensor there is an integrated connector. It is connected with the active part by the silver conducting paths which are covered by a dielectric protection layer. A bio-chemically active substance can be put on the working electrodes of the sensor.

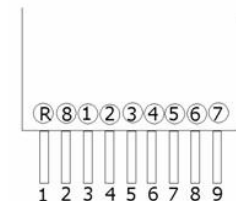
### Physical parameters

Dimensions:  
 Weight: 1.7 gms  
 Length: 59.0 mm  
 Width: 12.70 mm  
 Thickness: 0.63 mm

A =  $7.80 \pm 0.05$  mm  
 D<sub>1</sub> =  $1.00 \pm 0.05$  mm



Working electrodes are marked anticlockwise as standard



Contacts numbering begins from the left corresponding working electrode number is in circle

Electrode Materials are defined by:

AC9C.WSP

The asterisk is replaced by the appropriate number or letter.

A - Amperometric sensor or electrode	C - Connector
C - Corundum ceramic base	W - Gold working electrode
9 - Sensor group reference number	SP - Applied by sputtering

### Connector types for AC9C sensors range

	KA9C
AC9C.WSP	✓

## Sensor Usage

This specific range of AC9C sensors enables the measurement of:

- Electrochemical complex with array of electrodes

## References

- Tomas Bertok, Erika Dosekova, Stefan Belicky, Alena Holazova, Lenka Lorencova, Danica Mislovicova, Darina Paprckova, Alica Vikartovska, Robert Plicka, Jan Krejci, Marketa Ilcikova, Peter Kasak, and Jan Tkac  
Mixed Zwitterion-Based Self-Assembled Monolayer Interface for Impedimetric Glycomic Analyses of Human IgG Samples in an Array Format  
*Langmuir*, 2016, 32 (28), 7070-7078  
DOI: 10.1021/acs.langmuir.6b01456
- E. Dock, A. Christenson, S. Sapelnikova, J. Krejci, J. Emnéus, T. Ruzgas  
A steady-state and flow-through cell for screen-printed eight-electrode arrays,  
*Analytica Chimica Acta* 531 (2005) 165-172

## Experimental Accessories

- Flow Through Adapter

## Ordering information

- The order is specified by whole sensor description formula
- Minimum order quantity - 5 sensors
- All order quantities are to be in multiples of 5 e.g. 5, 10, 15, etc.
- Delivery time for standard AC9C sensors is 4 weeks from receipt of order
- Delivery time for non-standard AC9C depends on final technical specification

## Example of Order

- 100 pieces - AC9C.WSP