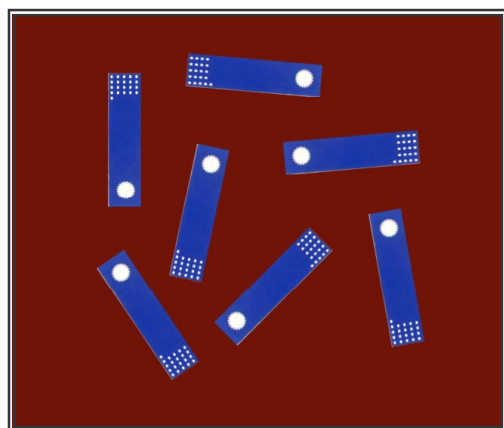


# SUBSTRATES FOR AMPEROMETRIC BIOSENSORS

Type : AC10.W\*.R\* (\*)



## Description

The sensor is formed on a corundum ceramic base. On to this surface twenty working electrodes, and the reference electrodes are applied. The working electrodes are made of Gold and the reference one is made of Silver in standard product AC10.WS.RS. At the end of the sensor there is a contacting field which is connected with the active part by the silver conducting paths which are covered by a dielectric protection layer. A bio-chemically active substance is put on the working electrodes of the sensor.

## Physical Parameters

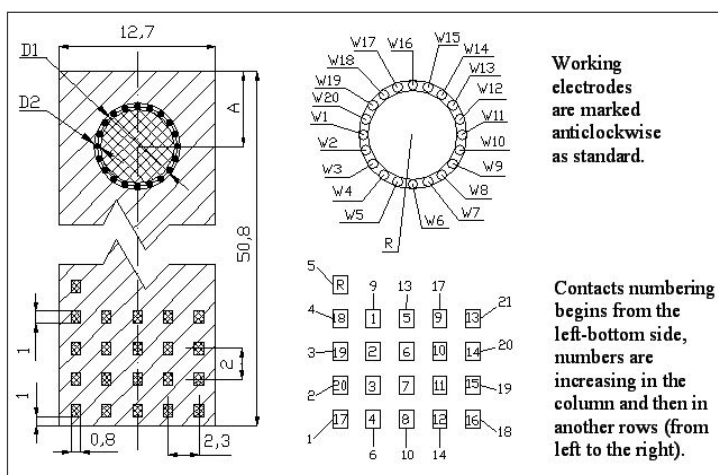
Dimensions		
Length	Width	Thickness
50.80 mm	12.70 mm	0.63 mm

Weight = 1.5 gms

A =  $7,00 \pm 0,05$  mm

D<sub>1</sub> =  $7,00 \pm 0,05$  mm

D<sub>2</sub> =  $0,60 \pm 0,05$  mm



## Electrode Materials

Electrode materials are defined by:

AC10.W\*.R\* (\*)

The asterisk is replaced by the appropriate number or letter.

**A** - Amperometric sensor or electrode

**C** - Corundum ceramic base

**10** - Sensor group reference number

**W** - Working electrode material

**S** - Alloy of Gold and Platinum

**1** - Pure Gold

**2** - Pure Platinum

**3** - Pure Silver

**4** - Graphite 1 (7101)

**5** - Graphite 2 (7105)

**R** - Reference electrode material

**S** - Silver

**1** - Silver / Silver Chloride

**2** - Silver covered by AgCl

**(\*)** - Additional technical specification

**V** - Vessel

## **Connector Types for AC10 Sensor Range**

- KA10

## **Optional Equipment**

Evaluating Units:

- BA8.\*

Experimental Accessories:

## **Sensor Usage**

This specific range of AC10 sensors enables the measurement of:

- Complex electrochemical with array of electrodes

## **Software Packs**

These are available for:

- Basic data archive in Excel

## **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 AC10 sensors is 4 weeks from receipt of order
- Delivery time for non-standard AC10 sensors depends on final technical specification of order

Example of Order:

- 100 pieces – AC10.W2.R1

### The explicit list of materials used for electrode preparation

Type of Sensor	Electrode Material		Conducting Paths
	Working W <sub>1</sub> – W <sub>20</sub>	Reference	
AC10.WS.RS	PtAu (15 / 85%)	AgPd (98 / 2%)	Ag
AC10.WS.R1	PtAu (15 / 85%)	Ag / AgCl (60 / 40%)	Ag
AC10.WS.R2	PtAu (15 / 85%)	Chlorinated Silver	Ag
AC10.W1.RS	AuPd (98 / 2%)	AgPd (98 / 2%)	Ag
AC10.W1.R1	AuPd (98 / 2%)	Ag / AgCl (60 / 40%)	Ag
AC10.W1.R2	AuPd (98 / 2%)	Chlorinated Silver	Ag
AC10.W2.RS	Pt (100%)	AgPd (98 / 2%)	Ag
AC10.W2.R1	Pt (100%)	Ag / AgCl (60 / 40%)	Ag
AC10.W2.R2	Pt (100%)	Chlorinated Silver	Ag
AC10.W3.RS	AgPd (98 / 2%)	AgPd (98 / 2%)	Ag
AC10.W3.R1	AgPd (98 / 2%)	Ag / AgCl (60 / 40%)	Ag
AC10.W3.R2	AgPd (98 / 2%)	Chlorinated Silver	Ag
AC10.W4.RS	C (7101)	AgPd (98 / 2%)	Ag
AC10.W4.R1	C (7101)	Ag / AgCl (60 / 40%)	Ag
AC10.W4.R2	C (7101)	Chlorinated Silver	Ag
AC10.W5.RS	C (7105)	AgPd (98 / 2%)	Ag
AC10.W5.R1	C (7105)	Ag / AgCl (60 / 40%)	Ag
AC10.W5.R2	C (7105)	Chlorinated Silver	Ag