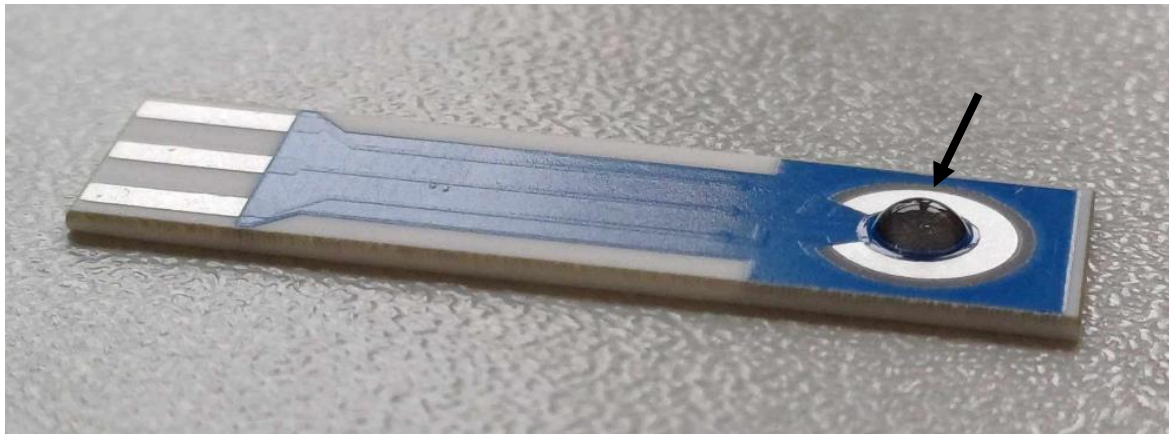


## AC1. ELECTROCHEMICAL SENSOR WITH A HYDROPHOBIC RING

Type: AC1.W\*.R\* with a hydrophobic ring

### Description

Electrochemical sensor type AC1. with a hydrophobic ring - a hydrophobic layer is printed around the working electrode of the sensor (with a diameter of 1 or 2 mm), which ensures that the liquid applied to the working electrode of the sensor forms a drop and does not move outside to the reference and auxiliary electrodes (see the photograph below). Such modification of the sensor is suitable, for example, before the next intended modification of only the working electrode of the sensor by the customer - for example, immobilization of a bioactive substance.



AC1.W4.RS sensor ( $D_w$  2 mm) with a hydrophobic ring  
 - example of a drop of water applied to the working electrode with a pipette

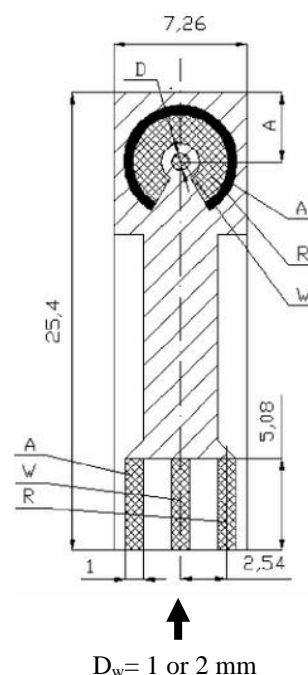
### Physical Parameters

#### Dimensions:

Weight: 0.5 gms  
 Length: 25.40 mm  
 Width: 7.26 mm  
 Thickness: 0.63 mm

$A = 4.00 \pm 0.05$  mm

$D = 1.00$  or  $2.00$  mm



**Electrode Materials** are defined by:

**AC1.W\*.R\* (\*)**

The asterisk is replaced by the appropriate number or letter.

<b>AC - Amperometric sensor or electrode on corundum ceramic base</b>	
<b>AC1 - Sensor group reference number</b>	
<b>W - Working electrode material</b>	<b>R - Reference electrode material</b>
<b>S - Alloy of Gold and Platinum</b>	<b>S - Silver</b>
<b>1 - Pure Gold</b>	<b>1 - Silver / Silver Chloride</b>
<b>2 - Pure Platinum</b>	<b>2 - Silver covered by AgCl</b>
<b>3 - Pure Silver</b>	<b>(*) - Additional Technical specification</b>
<b>4 - Carbon(Graphite)</b>	<b>H - Heating of the sensor</b>
<b>5 - Manually Microdispensed Carbon(Graphite) with Au+Pt alloy auxiliary electrode</b>	<b>T - Temperature sensing element</b>

Please note that material of hydrophobic ring has limited resistance to organic solvents and can be heated to 150°C to about 2 hours until significant change of parameters.

### **Sensor Usage**

The specific range of sensors enables the measurement of basic electrochemical and bio-electrochemical techniques.

### **Ordering information**

- The order is specified by whole sensor description formula
- Minimum order quantity - 20 sensors
- All order quantities are to be in multiples of 20 e.g. 100, 120, 140, 160 etc.
- Delivery time for standard AC1 sensors is 4 weeks from receipt of order
- Delivery time for non-standard AC1 sensors depends on final technical specification of order (see customer screen printed electrode questionnaire)

### **Examples of Order**

- 60 pieces - AC1.W2.RS 1 mm with a hydrophobic ring