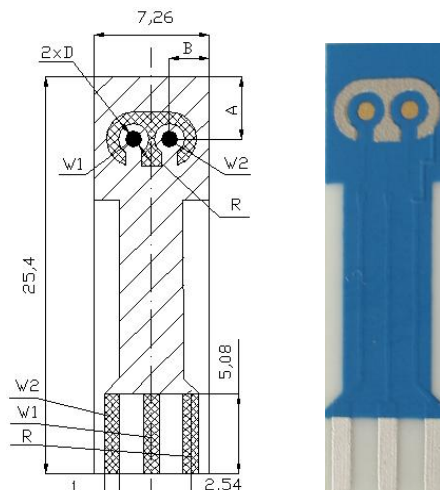


ELECTROCHEMICAL SENSORS

Type: AC2.W*.R* (*)

Description:

The sensor is formed on a corundum ceramic base. On to this surface two working electrodes, and one reference electrode are applied. The working and the auxiliary electrodes can be made of variety of materials. 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 can be immobilised on the working electrode to create a biosensor.



Physical parameters:

| | | | |
|------------|----------|---|--------------------|
| Weight: | 0.3 gms | A | 4.0 ± 0.05 mm |
| Length: | 25.40 mm | B | 2.54 ± 0.05 mm |
| Width: | 7.26 mm | D | 1.00 ± 0.05 mm |
| Thickness: | 0.63 mm | | |

Electrode Materials:

are defined by: **AC2.W*.R* (*)**

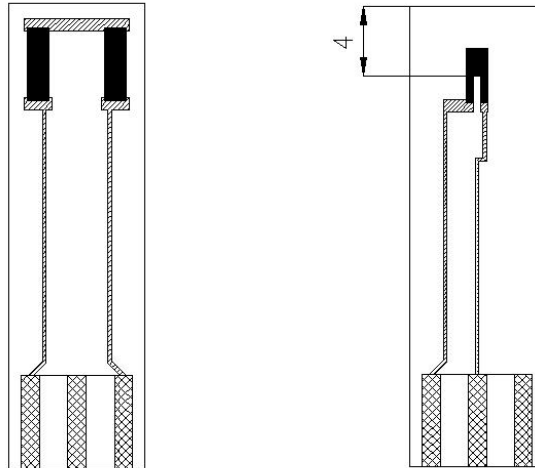
The asterisk is replaced by the appropriate number or letter.

| | |
|---|---|
| A - Amperometric sensor or electrode | R - Reference electrode material |
| C - Corundum ceramic base | S - Silver |
| 2 - Sensor group reference number | 1 - Silver / Silver Chloride |
| W - Working electrode material | 2 - Silver covered by AgCl |
| S - Alloy of Gold and Platinum | (*) - Additional Technical specification |
| 1 - Pure Gold | H - Heating of the sensor |
| 2 - Pure Platinum | T - Temperature sensing element |
| 3 - Pure Silver | |
| 4 - Graphite | |

Sensor Usage:

This specific range of AC2 sensors enable the measurement of:

- Basic electrochemical and bio-electrochemical techniques
- 2 species simultaneous
- Analyte on background of electrochemically active compound (electrochemical interference)



AC2.W*.R*(H)

AC2.W*.R*(T)

Experimental Accessories:

- Peristaltic PP and Linear Pump LP
- Connectors KA2 (for AC2 sensor with no additional function) or KA4 (for sensors with heating and/or temperature sensing element)
- Glass vessel TC1
- Thermostat TK-1 (there is model that allows thermostating TC1 cell)

Ordering information:

- The order is specified by whole sensor description formula
- Minimum order quantity - 25 sensors
- All order quantities are to be in multiples of 25 e.g. 25, 50, 75, etc.
- Delivery time for standard AC2 sensors is 4 weeks from receipt of order
- Delivery time for non-standard AC2 sensors depends on final technical specification of order

Examples of Order:

- 100 pieces - AC2.W2.R1

The explicit list of materials used for electrode preparation

| Type of Sensor | Electrode Material | | Conducting Paths |
|----------------|--------------------|-------------------------|------------------|
| | Working w1, w2 | Reference | |
| AC2.WS.RS | PtAu (15 / 85%) | AgPd (98 / 2%) | Ag |
| AC2.WS.R1 | PtAu (15/85%) | Ag / AgCl (60/40%) | Ag |
| AC2.WS.R2 | PtAu (15 / 85%) | Chlorinated Silver | Ag |
| AC2.W1 | | | |
| AC2.W1.RS | AuPd (98/2%) | AgPd (98/2%) | Ag |
| AC2.W1.R1 | AuPd (98 / 2%) | Ag / AgCl (60 / 40%) | Ag |
| AC2.W1.R2 | AuPd (98 / 2%) | Chlorinated Silver | Ag |
| AC2.W2 | | | |
| AC2.W2.RS | Pt (100%) | AgPd (98/2%) | Ag |
| AC2.W2.R1 | Pt (100%) | Ag / AgCl (60 / 40%) | Ag |
| AC2.W2.R2 | Pt (100%) | Chlorinated Silver | Ag |
| AC2.W3 | | | |
| AC2.W3.RS | AgPd (98/2%) | AgPd (98/2%) | Ag |
| AC2.W3.R1 | AgPd (98 / 2%) | Ag / AgCl (60 / 40%) | Ag |
| AC2.W3.R2 | AgPd (98 / 2%) | Chlorinated Silver | Ag |
| AC2.W4 | | | |
| AC2.W4.RS | C (7101) | AgPd (98/2%) | Ag |
| AC2.W4.R1 | C (7101) | Ag / AgCl (60/40%) | Ag |
| AC2.W4.R2 | C (7101) | Chlorinated Silver | Ag |
| AC2.W5 | | | |
| AC2.W5.RS | C (7105) | AgPd (98/2%) | Ag |
| AC2.W5.R1 | C (7105) | Ag / AgCl (60 / 40%) | Ag |
| AC2.W5.R2 | C (7105) | Chlorinated Silver | Ag |