

# A001S3 Biofilm Sensor



**ALVIM standard sensor, suitable for most industrial applications. Given its corrosion resistance, it is particularly indicated for seawater applications**

**Connection to the process**

1" BSPP thread

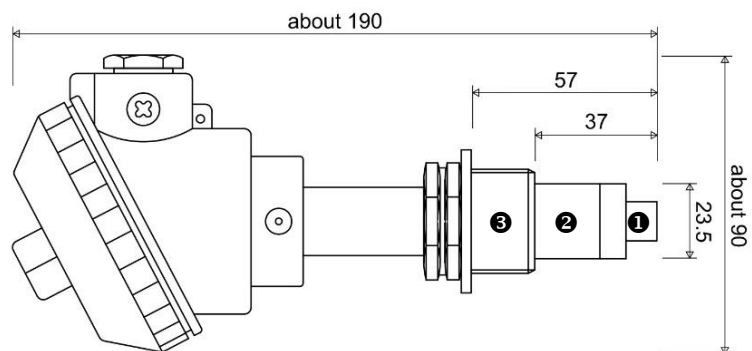
**Materials in contact with the process**

Titanium (working electrode ❶), Zinc (counter electrode ❷), PVC (threaded connector ❸)

**Sensitivity**

1-100% of surface covered by biofilm (i.e. the first bacterial layer)

**Measures (mm)**



**Operating conditions**

Temperature:

-10<T<+60 °C  
(to monitor biofilm growth: +2<T<+40 °C)

Oxygen:

>1 ppm  
(at the maximum sensitivity level)

Pressure:

<10 bar

Conductivity:

>10 μS/cm

**Power supply**

12 / 24 V DC ±20%, 500 mA

**Data communication**

4-20 mA and RS485/MODBUS RTU

**Wiring**

6-wire cable (external diam.<8 mm, wire section=0.5 mm<sup>2</sup>)  
2 wires used for power supply, 2 for RS485/MODBUS communication, 2 for 4-20 mA data transmission

**Software - Minimum system requirements (RS485/MODBUS)**

PC with Windows XP/7/8/10, 1 GHz CPU, 512 Mb Ram, 200 Mb of free space on hard drive, RS485 serial interface or USB port (for USB-RS485/MODBUS converter)

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