

# 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 threaded connector

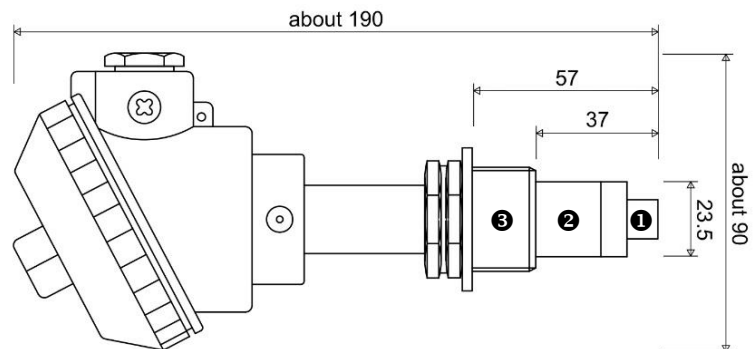
## Materials in contact with the process

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

Standard 6-wire cable, FROR 6x0.5 suggested  
(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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