

# 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

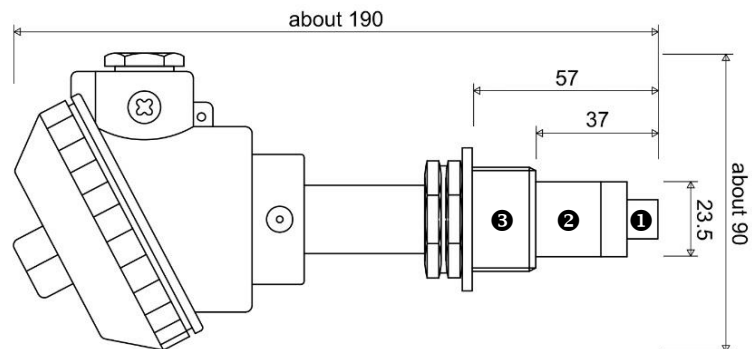
## Materials in contact with the process

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:

$-10 < T < +60^{\circ}\text{C}$   
(to monitor biofilm growth:  $+2 < T < +40^{\circ}\text{C}$ )

Oxygen:

$> 1 \text{ ppm}$   
(at the maximum sensitivity level)

Pressure:

$< 10 \text{ bar}$

Conductivity:

$> 10 \mu\text{S/cm}$

## Power supply

12V DC  $\pm 20\%$ , 150 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)

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.