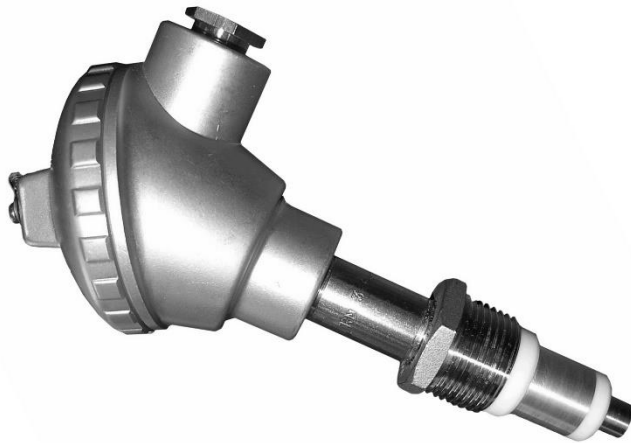


A003S3 Biofilm Sensor



Suitable for most industrial applications. Compared to A001S3 sensor, this model can tolerate higher temperatures

Connection to the process

1" BSPP threaded connector

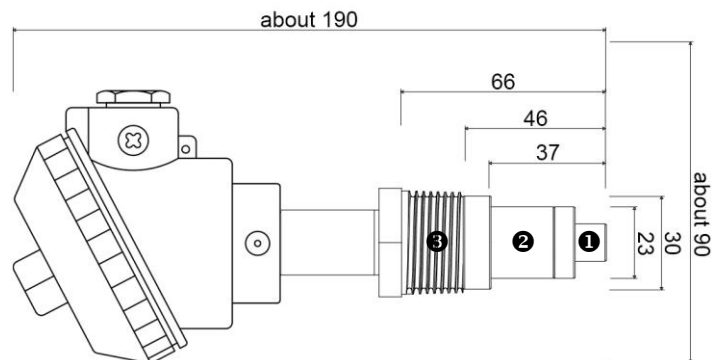
Materials in contact with the process

Titanium (working electrode ❶), Zinc (counter electrode ❷), PTFE, Stainless Steel (threaded connector ❸)

Sensitivity

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

Measures (mm)



Operating conditions

Temperature:

$-10 < T < +120^{\circ}\text{C}$
(to monitor biofilm growth: $+2 < T < +40^{\circ}\text{C}$)

Oxygen:

> 1 ppm
(at the maximum sensitivity level)

Pressure:

< 10 bar

Conductivity:

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

Power supply

12 / 24 V DC $\pm 20\%$, 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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