

# AX03S3 Biofilm Sensor



**ATEX certified, this model is indicated for classified areas and applications where there is a risk of explosion (e.g. Oil&Gas)**

**Connection to the process**

1" BSPP thread

**Materials in contact with the process**

Titanium (working electrode ❶), Zinc (counter electrode ❷), POM-C, Stainless Steel (threaded connector ❸)

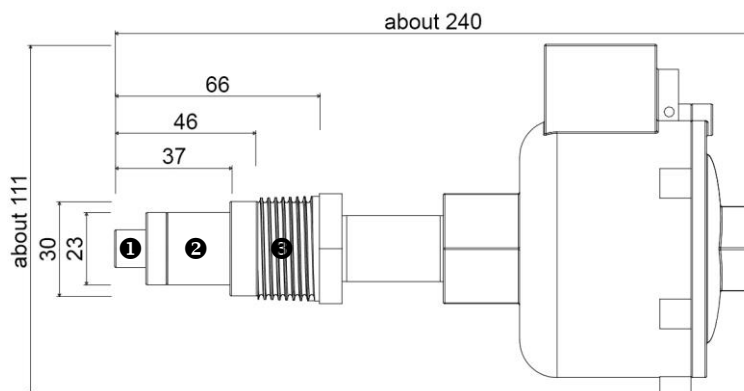
**Sensitivity**

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

**ATEX string**

Ⓔ II 2G Ex mb IIB T6 Gb

**Measures (mm)**



**Operating conditions**

Temperature:

-10<T<+50 °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 V DC ±20%, 500 mA

**Data communication**

4-20 mA and RS485/MODBUS RTU

**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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