

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 threaded connector

Materials in contact with the process

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

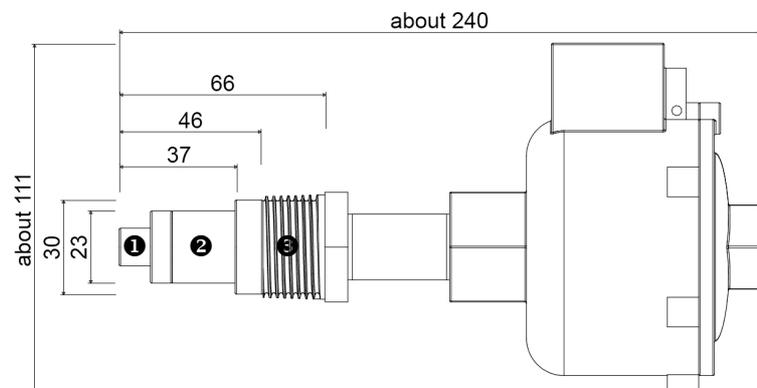
Sensitivity

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 μ S/cm

Power supply

12V DC $\pm 20\%$, 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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