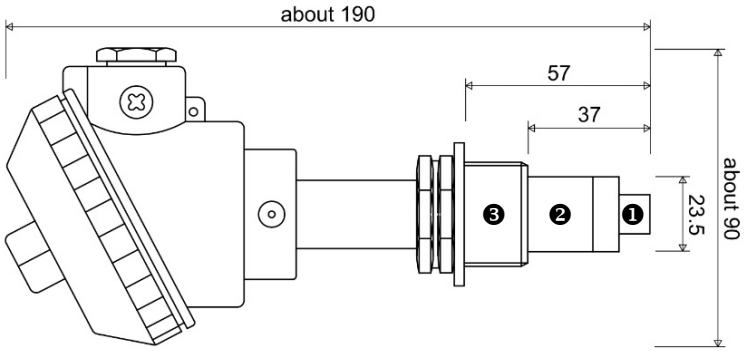
A001S3 Biofilm Sensor

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	12V DC ±20%
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/MODUS 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)