

Fluorometric Dissolved Oxygen Sensor

innoSens 451-RS

The innoSens 451-RS fluorometric DO sensor is based on the fluorescence quenching principle, requires no membrane or electrode fluid, is virtually maintenance free, has excellent performance, is easy to use, does not consume oxygen and is widely used for DO monitoring in aeration basins of municipal water treatment plants and surface water.

Measuring parameters

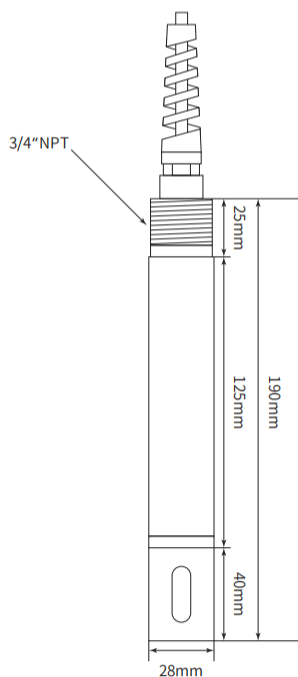
Dissolved oxygen, Temperature

Applications

Sewage/wastewater treatment, Surface water, Aquaculture



Dimensional Drawing



Features

- Optical principle: no need to replace membrane and electrolyte, no flow rate required
- Good fluorescent cap consistency and stability
- Built-in optical attenuation compensation, long sensor life
- Plug and play, easy to install

Technical parameters

Product type:	innoSens 451-RS
Measuring range:	0~20.00mg/L or 0~200%
Resolution:	0.01mg/L
Accuracy:	<±0.3mg/L
Repeatability:	<±0.3mg/L
Response time:	<45s
Supply power:	12~24VDC
Communication:	standard RS485 Modbus RTU protocol
Temperature compensation:	Built-in NTC temperature probe
Operating temperature:	0-50°C
Protection class:	IP68
Mounting:	Submerged installation
Cable length:	10m as standard
Material:	POM+316L
Size:	190mm
Weight:	Ca.0.3kg

Order Guide

Order No.	Description
35-0451-10	innoSens 451, Fluorometric Dissolved Oxygen Sensor
36-0451-10	innoSens 451-RS, Digital fluorometric dissolved oxygen Sensor RS485 Modbus RTU protocol