

Fluorescence Dissolved Oxygen Electrode

innoSens 450/451

The innoSens450 and innoSens451 fluorescence dissolved oxygen sensors are based on the principle of fluorescence inactivation, require no membranes or electrolyte, are virtually maintenance-free, have excellent performance, are easy to use, do not consume oxygen, and are widely used for DO monitoring of aeration basins in municipal wastewater treatment plants.



Measurement parameters

Dissolved oxygen, Temperature

Applications

Wastewater treatment, Surface water, Aquaculture

Applicable Controllers

innoCon 6800D Digital Dissolved Oxygen Controller

Features

- Uses fluorescence quenching measurement technology
- No membranes or electrolyte required
- No calibration and maintenance required
- Only need to replace fluorescent cap (cycle 1~2 years)

Technical parameter	
Measuring range:	0.00-20.00ppm/0-200%
Resolution:	0.01ppm
Accuracy:	±0.1ppm or ±1%
Response time:	<60seconds
compensation:	Built-in NTC temperature probe
Working temp:	0-60°C
Flow rate:	No requirement
Material:	316L
Dimensions:	Diameter: 33.5mm, Length: 197mm, Connection: 3/4" BSP
Cable:	10m Standard
Max Pressure:	5bar
Protection Class:	IP68
Order No.	35-0450-00



Measurement parameters

Dissolved oxygen, Temperature

Applications

Wastewater treatment, Surface water, Aquaculture

Applicable Controllers

innoCon 6800D Digital Dissolved Oxygen Controller

Features

- Adopts fluorescence quenching measurement technology
- Built-in temperature probe compensation
- 316L stainless steel housing
- No membrane or electrolyte required
- Stainless steel flow cell as standard

Technical parameter	
Measuring range:	0~20.00mg/L或0~200%
Resolution:	0.01mg/L
Accuracy:	<±0.3mg/L、<±0.3mg/L
Response time:	<45s
compensation:	Standard RS485 Modbus RTU protocol
Working temp:	Built-in NTC temperature probe
Flow rate:	0-50°C
Material:	Submerged installation
Dimensions:	10m Standard
Cable:	POM+316L
Max Pressure:	190mm、Ca. 0.3kg
Protection Class:	IP68
Order No.	35-0451-10