# 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℃ |
| 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℃ |
| Material: | Submerged installation |
| Dimensions: | 10m Standard |
| Cable: | POM+316L |
| Max Pressure: | 190mm、Ca. 0.3kg |
| Protection Class: | IP68 |

| | |
|---|---|
| Order No. | 35-0451-10 |