

# SD 400 Oxi L

Measurement of dissolved oxygen at an advanced level



\* Picture shows optional available metal guard.  
This is not part of the delivery content of the sensor.

## Highlights

- Luminescence Technology
- High accuracy
- Drift-free, optical measurement
- Easy, intuitive handling
- Comfortable BOD bottle fitting

## Applications

- Waste Water
- Water Treatment
- Marine Water
- Surface Water
- Drinking/ Potable Water

## Users

- Sewage plants
- Medical research and development
- Institutes, Universities, Schools
- Water protection control
- Laboratories
- Aquaria

The SD 400 Oxi L allows the measurement of dissolved oxygen at an advanced level.

The determination of dissolved oxygen in water is based on the optical technology of luminescence.

This technology offers distinct advantages regarding low maintenance, easy calibration and fast response combined with high accuracy.

## Features of SD 400 Oxi L

For oxygen measurement based on luminescence, no electrolyte is required. There is therefore no need to refill the sensor, making maintenance particularly easy.

- High accuracy
- No sample flow is needed
- Low maintenance
- No costs caused by electrolyte
- No pollution of ambient medium
- Long-life sensor membrane
- Insensitive to toxic gases

### Additional features of SD 400 Oxi L

- Waterproof sensor IP 67
- Backlit LCD
- Internal data storage
- Software for monitoring and storage of data
- Mini USB port
- Comfortable fitting to BOD Karlsruhe NS 19 / 26 (16,4 mm ø and above)



Data Transmission Kit



SD 400 Oxi L in case

## SD 400 Oxi L

<b>Probe</b>	Optical DO
<b>Protection class</b>	IP 67 (sensor)
<b>Display</b>	Large LCD display
<b>Data Memory</b>	Auto or manual data memory, Micro SD-card
<b>Data Logger</b>	Software for monitoring and storage of data
<b>Software</b>	Included in instrument
<b>Interface</b>	Mini USB
<b>Power off</b>	After 10 minutes or manual off
<b>Power Supply</b>	Mini USB or 4 x AA batteries
<b>Salinity</b>	0... 50 ppt, auto compensation (with manual input salinity)
<b>Response time</b>	40 sec. to 90 % of final reading
<b>Storage temperature</b>	-5 °C to 50 °C
<b>Working temperature</b>	-5 °C to 50 °C
<b>Dimensions</b>	162 x 98 x 54 mm (L x W x H) instrument only
<b>Weight</b>	approx. 314 g (unit incl. batteries)
<b>Languages</b>	German, English, Italian, French, Spanish, Portuguese, Dutch, Chinese (simplified)

### CE-Conformity

## Accessories

Code	Article
740060	Optical DO probe with 1.5 m cable and bottle for storage and calibration
740070	Optical DO probe with 3 m cable and bottle for storage and calibration
740080	Optical DO probe with 10 m cable and bottle for storage and calibration
740030	SD 400 Oxi L basic instrument
740090	Data Transmission Kit (consists of USB cable and wall mount adapter)
740100	Maintenance Kit (consists of membrane cap and Micro SD card with software and calibration data)
740110	Metal guard (for protection and weight in field-testing)
740120	Bottle for storage and calibration
740050	Carrying case with foam
197635	Cleaning cloth

## Technical Data

### Measuring ranges

<b>Oxygen</b>	0 - 50 mg/l
- saturation	0 - 500 %
- temperature	-5 to 50 °C
- barometer	51 to 112 kPa

### Resolution

<b>Oxygen</b>	0.01 mg/l
- saturation	0.1 %
- temperature	0.1 °C
- barometer	0.1 kPa

### Accuracy

<b>Oxygen</b>	0 to 200 % or 0 - 20 mg/l: ± 1.0% of the reading or ± 0.1 mg/l whichever is greater > 200 % or > 20 mg/l: ± 10 % of reading
- temperature	± 0.2 °C
- barometer	± 0.2 %

## Delivery Content

### Order Code: 740000

SD 400 Oxi L, Set 1 with 1.5 m cable instrument, 4 (AA) batteries, optical DO probe with 1.5 m cable, bottle for storage and calibration, Micro SD Card with calibration data, software and full user manual, quick start guide and lanyard in case

### Order Code: 740010

SD 400 Oxi L, Set 2 with 3 m cable instrument, 4 (AA) batteries, optical DO probe with 3 m cable, bottle for storage and calibration, Micro SD Card with calibration data, software and full user manual, quick start guide and lanyard in case

### Order Code: 740020

SD 400 Oxi L, Set 3 with 10 m cable instrument, 4 (AA) batteries, optical DO probe with 10 m cable, bottle for storage and calibration, Micro SD Card with calibration data, software and full user manual, quick start guide and lanyard in case