

# SensoDirect200 (IP 67 waterproof)



Determination of  
Conductivity / TDS  
Salinity  
Oxygen  
Temperature

## Oxi200

- Dissolved Oxygen (O<sub>2</sub>)
- O<sub>2</sub> Concentration in mg/l
- O<sub>2</sub> Saturation in %
- °C/°F

## Con200

- Conductivity
- TDS
- Salinity
- °C/°F

The microprocessor-controlled SensoDirect range of handheld meters from Lovibond® meets the day-to-day demands for sturdy and reliable systems for the measurement of temperature conductivity/TDS and dissolved oxygen.

The water-tight housing complies with **IP67** and is equipped as standard with protective armouring and built-in electrode holder ensuring reliable operation even in extreme ambient conditions.

The support can be flipped up to hang the meter on pipes or branches.

A direct, easily understood user interface, outlining the required configuration options for all three systems, facilitates meter operation both outdoors and in the laboratory.

The automatic Hold function "freezes" stable measuring data in the display and indicates the presence of stable and reproducible results.

The internal memory allows storage of 20 data sets to facilitate subsequent evaluation.

The integral automatic switch-off feature, varying from 1 to 120 minutes, increases the operating life of the units.

The power consumption of all three units has been reduced to a minimum. As a result, the 4 x 1.5 V integrated batteries have an operating life of up to 12,000 hours, depending on the unit version.

## Electrodes / measuring probes

The wide variety of high-quality electrodes and measuring probes for the SensoDirect 200 meters makes them suitable for almost any application in water analysis, industry and research.

The galvanic, membrane-covered oxygen sensor with built-in temperature sensor allows instant measurement without the need for time-consuming polarisation.

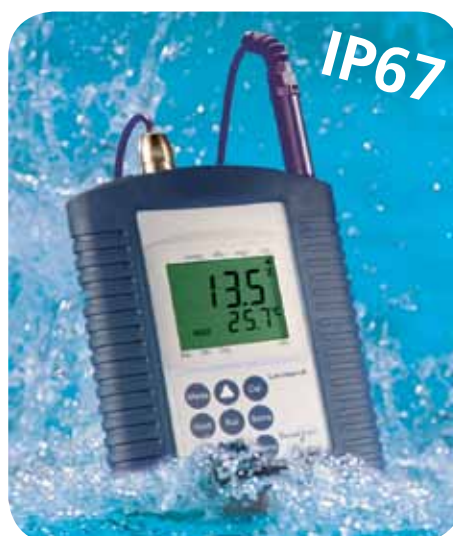
The sturdy, dirt-insensitive 4-pole conductivity measuring cell with graphite electrodes is ideal for use in industrial process and waste water analysis. The temperature range from 0...80 °C, for a short period up to 100°C, make this sensor to a practice-oriented, user friendly item.

### Oxi200

- Oxygen partial pressure, Oxygen concentration, Oxygen saturation, Temperature measurement
- Automatic absolute air pressure measurement
- Auto Hold function
- Easy calibration against oxygen in air
- Salinity correction
- Self-polarising galvanic oxygen probe, allows instant measurement after the system is switched on
- Low battery and battery change indicator
- Sensor evaluation in the display
- Accessories for depth measurement
- Battery operation period up to 12000 hours
- Shock-absorbing rubber protective armouring
- Waterproof

### Con200

- Conductivity, Total Dissolved Solids (TDS), Salinity and Temperature measurement
- Dirt-insensitive up-to-date 4-pole conductivity cell offering highest precision
- Automatic temperature compensation (ATC)
- Min/Max value storage
- Internal memory for 20 data sets
- Linear and non-linear temperature compensation (EN27888)
- Calibration against standard solutions
- Low battery and battery change indicator
- Shock-absorbing rubber protective armouring
- Battery operation period up to 3000 hours
- Waterproof



## Applications

- Drinking Water
- Cooling/Boiler Water
- Waste Water
- Pool Water
- Surface Water
- Water Treatment Companies
- Industrial and Governmental Laboratories

# SensoDirect Oxi200

## Technical Data

<b>O<sub>2</sub> partial pressure</b>	0.0...570.0 hPa, 0...1200 hPa 0.0...427.5 mm Hg, 0...900 mm Hg
<b>O<sub>2</sub> concentration</b>	0.00...25.00 mg/L, 0.0...70.0 mg/L
<b>O<sub>2</sub> saturation</b>	0.0...250.0 %, 0...600 %
<b>Accuracy</b>	± 1.5% ± 0.2 mg/L (0...25 mg/L) ± 2.5% ± 0.3 mg/L (25...70 mg/L) ± 1 Digit
<b>Temperature</b>	-5.0 ... + 50.0 °C 23.0 ... 122.0 °F
<b>Accuracy</b>	± 0.1 °C
<b>Abs. air pressure</b>	500..1100 hPa
<b>Accuracy</b>	± 0.5% full scale
<b>Nominal temperature</b>	25 °C
<b>Operating temperature</b>	0 to +50 °C
<b>Storage temperature</b>	-20 to +70 °C
<b>Power supply</b>	4 x 1.5 V battery, Type AA Operating time up to 12.000 h
<b>Power consumption</b>	max. 0.25 mA
<b>Auto-Off function</b>	0 - 120 minutes
<b>Dimensions</b>	175 x 140 x 45 mm (L x W x H)
<b>Weight</b>	approx. 580 g
<b>Electrode</b>	Self-polarising oxygen electrode with integrated NTC sensor Connection: 7-pin DIN socket Installation diameter: 12.0 ± 0.2 mm Overall length: approx. 220 mm (incl. kink protection) Operating temperature: 0...40 °C

## CE-Conformity

## Accessories

Code	Article
723201	Oxygen sensor, 1.5 m cable
723210	Oxygen sensor, 10 m cable
723230	Oxygen sensor, 30 m cable
723250	Service Set Oxygen sensor 3 interchangeable membrane heads, 100 ml plastic bottle KOH-solution 3 mol/l
723260	Protection cap for depth measurement
725020	Case with foam inlet

## Delivery Content

**Order Code: 723220**  
**SensoDirect Oxi200**  
with batteries,  
oxygen sensor (1.5 m cable),  
electrolyte (KOH), 3 interchangeable  
membrane heads, in case, manual,  
guarantee sheet

**Order Code: 723221**  
**SensoDirect Oxi200**  
as above, but with  
oxygen sensor 10 m cable

**Order Code: 723222**  
**SensoDirect Oxi200**  
as above, but with  
oxygen sensor 30 m cable



SensoDirect Oxi200 in carrying case

# SensoDirect Con200

## Delivery Content

**Order Code: 722220**  
**SensoDirect Con200**  
 with, batteries,  
 4-Pole conductivity cell,  
 in case, manual,  
 guarantee sheet

## Accessories

Code	Article
722225	SensoDirect Conductivity Cell, 4-Pole Technology
722250	Calibration solution 1413µS/cm
725020	Case with foam inlet

## Technical Data

<b>Conductivity</b>	0.0 ... 200.0 µS/cm 0 ... 2000 µS/cm 0.00 ... 20.00 mS/cm 0.0 ... 200.0 mS/cm
<b>Resistance</b>	0.005 ... 100.0 kOhm*cm
<b>TDS</b>	0 ... 1999 mg/l
<b>Salinity</b>	0.0 ... 70.0 g/kg
<b>Accuracy</b>	± 0.5 % of result ± 0.5 % FS (± 3 digits)
<b>Temperature</b>	-5.0 ... 100.0 °C 23.0 ... 212 °F
<b>Accuracy</b>	±0.3K
<b>Cell constant</b>	0.50 ± 0.10 cm-1
<b>Temperature compensation</b>	selectable: - linear, 0.3 to 3.0 %/K - non-linear in acc. with EN 27 888 - no compensation
<b>Reference temperature</b>	20 °C and 25 °C
<b>Calibration</b>	1-point calibration in the range from 1000 to 2000 µS/cm
<b>Nominal temperature</b>	25 °C
<b>Operating temperature</b>	Unit: 0 to + 50 °C Measuring cell: -5 to 80 °C (up to 100 °C for short periods)
<b>Power supply</b>	4 x 1.5 V battery, Type AA Operating time up to 1500 h
<b>Power consumption</b>	ca. 2 mA, max. 4.2 mA
<b>Auto-Off function</b>	0 - 120 minutes
<b>Dimensions</b>	175 x 140 x 45 mm (L x W x H)
<b>Weight</b>	approx. 580 g
<b>Measuring cell</b>	4-pole conductivity measuring cell with integrated temperature- sensor (NTC10kOhm). Electrode material: special graphite Shaft material: epoxy Temperature sensor: stainless steel Dimensions: diameter 12 mm, 120 mm long



SensoDirect Con200 in carrying case

## CE-Conformity