



Lovibond

since 1885

Electrochemistry



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Optical oxygen measurement SD 400 Oxi L



Measurement
of dissolved oxygen
at an advanced level



■ 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 SD400 Oxi L allows the measurement of dissolved oxygen in a convenient and simple manner. The determination of dissolved oxygen in water is based on optical luminescence technology. This is characterized by fast response time and a particularly low maintenance requirement. Combined with high accuracy, this technology offers great benefits to the user.

Features of SD 400 Oxi L

For oxygen measurement by means of luminescence technology, the following advantages are obtained compared to galvanic sensors and Clark sensors:

- High accuracy
- No sample flow is needed
- Low maintenance
- No oxygen consumption in the measuring medium
- No pollution of ambient medium
- Long-life sensor membrane
- Robust measurement even in sulfide-containing samples

Additional features of SD400 Oxi L

- Waterproof sensor IP67
- Backlit LCD
- Internal data storage
- Software for monitoring and storage of data
- Micro USB port
- Comfortable fitting to BOD Karlsruhe NS19 / 26 (16.4 mm Ø and above)



Data Transmission Kit



SD400 Oxi L in case

SD 400 Oxi L

Probe	Optical DO
Protection class	IP67 (sensor)
Display	Large LCD display
Data Memory	Micro SD-card
Data Logger	Software for monitoring and storage of data
Software	Included in instrument
Interface	Micro USB
Power of	After 10 minutes or manual of
Power Supply	Micro USB or 4 x AA batteries
Salinity	0... 50 ppt, auto compensation (after manual input salinity)
Response time	40 sec. to 90 % of final reading
Storage temperature	-5 °C to 50 °C
Working temperature	-5 °C to 50 °C
Dimensions	162 x 98 x 54 mm (L x W x H) instrument only
Weight	approx. 330 g (unit incl. batteries)
Languages	German, English, Italian, French, Spanish, Portuguese, Dutch, Chinese (simplified)

CE-Conformity

Technical Data

Measuring ranges

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

Resolution

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

Accuracy

Oxygen	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 %
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Delivery Content

Order Code: 740000

SD 400 Oxi L, (Set 1)
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)
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)
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

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	SD400 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



SD 300 pH
SD 310 Oxi
SD 320 Con

Automatic
buffer detection

Robust &
water resistant
(IP 67)

PC interface
(USB / serial or analog)

Data logger
& alarm function



Applications

- Drinking Water
- Cooling/Boiler Water
- Waste Water
- Pool Water
- Surface Water
- Laboratory

Features		
SD 300 pH	SD 310 Oxi	SD 320 Con
Additional Display for pH Electrode pH Calibration Automatic Buffer Recognition. Permissible electrodes data: Asymmetry: ± 55 mV / Slope: 45 ... 62 mV/pH The condition of pH Electrode is checked at each calibration. 1, 2 or 3 point calibration with Lovibond® Standard Buffer, DIN 19266 Buffer or any manually entered Buffer values. Redox Measurement (ORP) 2 options: • "mV" Standard Redox or mV measurement • "mV_H" Conversion to hydrogen systems according to DIN 38404 Part 66 rH Measurement The rH value is calculated from a measured Redox value and a manually input pH value	Measurement of: Oxygen partial pressure, Oxygen Concentration, Oxygen Saturation, Temperature measurement Automatic absolute air pressure measurement Easy calibration against oxygen in air Sensor evaluation Salinity correction Self-polarising galvanic oxygen probe, allows instant measurement after system is switched on	Salinity measurement Salinity means the sum of amount of all dissolved salts in water. The unit is g / kg. TDS measurement (total dissolved solids) TDS means the mass concentration of dissolved media in a liquid. The unit is mg/l. 5 Ranges Determination of resistivity 4 Cell constants values
Min / Max Value Memory Automatic Temperature compensation Auto Power Off (0 - 120 min) Low Battery Display Alarm Function Auto Hold Function Shock-absorbing rubber protective armouring Waterproof IP 67 Data Logger and Software		



SD 300 pH in case



SD 310 Oxi in case



SD 320 Con in case

➤ Accessories from page 150



Technical Data	SD 300 pH	SD 310 Oxi	
Measuring ranges	pH: -2.000 ... 16.000 pH Redox: -2000 ... +2000 mV Temperature: -5,0 ... 150,0 °C rH: 0.0 ... 70.0 rH	O ₂ -concentration: 0.0 ... 70.0 mg/l O ₂ -partial pressure: 0 ... 1200 hPaO ₂ O ₂ -saturation: 0,0 ... 600,0 % Ambient air pressure: 10 ... 1200 hPaabs. Electrode temperature: 0,0 ... 50,0 °C Operating pressure(sensor): max. 3 bar $\hat{=}$ 30 m water depth	
Accuracy	pH: ± 0.005 pH Redox: ± 0.05 % FS Temperature: ± 0.2 °C (- 5.0 ... + 100.0 °C) rH: ± 0.1 rH	O ₂ -concentration: 0 ... 25 mg/l ± 1.5 % ± 0.2 mg/l 25 ... 70 mg/l ± 2.5 % ± 0.3 mg/l Ambient air pressure: 3 hPa _{abw.} 0,1 % v. Mw. (higher value relevant) Sensor Temperature: ± 0.1 °C	
Auto-Of	0 - 120 minutes		
Electrode connections	pH, Redox: BNC-plugs, standard BNC-plugs and waterproof BNC-plugs	7 pin bayonet connection	
Interface / Supply	4 pin bayonet connection for serial interface and supply (USB300)		
Display	LCD, 4.5 digit seven-segment display (switchable)		
Data storage	cyclically: 10000 data sets (cycle 1 Sec. ... 60 min) single: 1000 data sets		
Calibration	automatically or manually (1-, 2- or 3-point calibration)	automatically (1-, 2- or 3-point calibration)	
Power supply	2 x AAA batteries (included)		
Additional functions	min/max-value, hold-function		
	salinity correction 0.1 ... 70 PSU		
Reference temperature	25 °C		
Alarm function	adjustable (min/max limit)		
Display	evaluation of battery and electrode status real time clock		
Conditions			
Working conditions	-25 ... - 50 °C; 0 ... - 95 % relative density (non-condensing)	Electrode: 0 ... +40 °C / Instrument: -25 ... +50 °C; 0 ... 95 % relative density (non-condensing)	
Storage temperature	-25 ... +70 °C	Electrode: 0 ... +60 °C Instrument: -25 ... +70 °C	
Dimensions	164 x 128 x 37 mm (L x B x H)	164 x 98 x 37 mm (L x B x H)	
Weight	ca. 287 g incl. battery and protective armouring		
Armouring	shock-absorbing ABS-armouring		
Protection class	IP67 (housing and connections)		
Conformity	CE		

SD 320 Con	
Conductivity: (depending on cell constant of measuring cell)	0,000 ... 1000 mS/cm (display area)
Cell:	LC12 (to 200 mS/cm; cell constant: approx. 0,55 cm ⁻¹) LC16 (to 1000 mS/cm; cell constant: approx. 0,42 cm ⁻¹) Ultrapure water (0 ... 200 µS/cm; cell constant: ca. 0,1 cm ⁻¹)
Resistivity:	0.005 ... 500 kOhm*cm (depending on cell constant)
TDS:	0 ... 5000 mg/l (depending on cell constant)
Salinity:	0.0 ... 70.0 PSU (Practical Salinity Unit)
Temperature:	-5.0 ... +100 °C
Conductivity:	±0.5 % v. Mw ±0.1 % FS (depends on electrode)
Temperature:	±0.2 °C (-5.0 ... +100.0 °C)
0 - 120 minutes	
7 pin bayonet connection	
4 pin bayonet connection for serial interface and supply (USB300)	
LCD, 4.5 digit seven-segment display (switchable)	
cyclically: 10000 data sets (cycle 1 Sec. ... 60 min) single: 1000 data sets	
automatically or manually	
2 x AAA batteries (included)	
min/max-value, hold-function	
Adjustment of the temperature input	
20 or 25 °C, adjustable	
adjustable (min/max limit)	
evaluation of battery	
real time clock	
-25 ... +50 °C; 0 ... 95 % relative density (non-condensing)	
-25 ... +70 °C	
164 x 128 x 37 mm (L x B x H)	
ca. 287 g incl. battery and protective armouring	
shock-absorbing ABS-armouring	
IP67 (housing and connections)	
CE	

Delivery Content

SD 300 pH

Order Code: 72 46 10

SD 300 pH (Set 1)

instrument, batteries, pH/temp. plastic-electrode type 231, pH-buffer-set (pH 4.01/7.00/10.01), in case, manual, warranty information in case

Order Code: 72 46 11

SD 300 pH (Set 2)

instrument, batteries, but with pH / temperature plastic-electrode type 226, temperature sensor Pt1000, manual, warranty information in case

Order Code: 72 46 00

SD 300 pH (basic unit)

without electrode, with batteries, protective armouring, instruction manual, warranty information in case

SD 310 Oxi

Order Code: 72 46 50

SD 310 Oxi (Set 1)

instrument, batteries, oxygen sensor with 1.5 m cable, electrolyte solution (KOH) 100 ml and 2 pcs. spare membrane heads, instruction manual, warranty information in case

Order Code: 72 46 60

SD 310 Oxi (Set 2)

instrument, batteries, but with oxygen sensor with 10 m cable, electrolyte solution (KOH) 100 ml, spare membrane heads (2 pcs.), instruction manual, warranty information in case

Order Code: 72 46 65

SD 310 Oxi (Set 3)

instrument, batteries, but with oxygen sensor with 30 m cable, electrolyte solution (KOH) 100 ml, spare membrane heads (2 pcs.), instruction manual, warranty information in case

SD 320 Con

Order Code: 72 47 00

SD 320 Con (Set 1)

instrument, batteries, conductivity cell LC12 (measuring range 0 - 200 mS/cm), manual, warranty information in case

Order Code: 72 47 20

SD 320 Con (Set 2)

instrument, batteries, conductivity cell LC16 (measuring range 0 - 1000 mS/cm), manual, warranty information in case

Order Code: 72 47 10

SD 320 Con (Set 3)

instrument, batteries, pure water conductivity cell (measuring range 0 - 100 mS/cm) manual, warranty information in case

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SensoDirect 150



pH
Redox
Conductivity
TDS
Dissolved Oxygen

All in one

Large digital display

The SensoDirect150 combines the features of several hand-held meters. It is designed for multi purpose operation and measures pH/Redox, dissolved oxygen and conductivity/TDS.

All measured values can be conveniently read on the large LCD display

Applications

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

Technical Data SD 150

Parameter	pH	ORP	Oxygen	Conductivity	TDS	Temperature
Range / Resolution	0.00 ... 14.00 pH	-1999 ... 1999 mV	O ₂ dissolved: 0.0 ... 20.0 mg/L Air O ₂ : 0.0 ... 100.0 %	0.0 ... 200.0 µS/cm 0.200 ... 2.000 mS/cm 2.00 ... 200.00 mS/cm 200.0 ... 2.000.0 mS/cm	0.0 ... 132.0 ppm 132 ... 1320 ppm 1320 ... 13200 ppm 13200 ... 132000 ppm	0.0 ... 60.0 °C 32.0 ... 140.0 °F
Accuracy	± 0.02 pH	± 0.5% of measured value	O ₂ dissolved: ± 0.4 mg/L Air O ₂ : ± 0.7 %	± 2 % of measured value		± 0.8 °C± 1.5 °F
Temperature compensation	automatically (with temperature electrode) and manually	-	automatically	adjustable:0... 5.0 % / °C		-
Calibration	(1-, 2- or 3-point calibration (automatically or custom))	1-point calibration (custom, standards only > +100 mV)	1-point calibration (automatically)	1- or 2-point calibration, manually		-
Standards for automaticdetection	USA:4.01 / 7.00 / 10.01 pH	-	oxygen content air	-		
Salinity correction	-		0 ... 39 %, manually	-		
Air Pressure compensation	-		0 ... 8900 m, manually	-		
Display	58 x 34 mm LCD					
Data-Hold-Function	Yes					
AutomaticPower Of	after 10 min, optional					
Operating conditions	0 ... 50 °C, 0 ... 80 % relative density (non-condensing)					
Power Supply	4 x 1.5 V batteries AA or DC 9V adapter					
Weight	ca. 620 g (battery and protective armouring)					
Dimensions	203 x 76 x 38 mm (battery and protective armouring)					
Protection class	IP 51					
Conformity	CE					
Order Info Sets:						
Set 1	724200	✓	-	✓	✓	✓
Set 2	724210	✓	-	✓	✓	✓
Set 3	724220	✓	-	✓	-	✓
Set 4	724230	✓	✓	-	-	✓

Delivery Content

All Sets include:

- Sturdy plastic case
- Measuring instrument with protective armouring
- 4 x 1.5 V batteries AA
- pH electrode type 226
- Temperature probe Pt1000
- pH 4.01 and 7.00 buffer set (90 ml each)
- Instruction manual

SensoDirect 150 Set 1

- pH / Con / TDS/ O₂ dissolved / Temp.
- Conductivity probe type 110/150
- Oxygen sensor type 150
- Electrolyte and membrane heads (2 pc.)

SensoDirect 150 Set 2

- pH / Con / TDS/ Temp.
- Conductivity probe type 110/150

SensoDirect 150 Set 3

- pH / O₂ dissolved/ Temp.
- Oxygen sensor type 150
- Electrolyte and membrane heads (2 pc.)

SensoDirect 150 Set 4

- pH / Redox/ Temp.
- Redox electrode type 242

➤ Accessories from page 150



SensoDirect 110



Battery operated pH meter for the determination of pH, Salinity and Conductivity.
Variety of applications and user-friendly in operation.

The protective armoured case is not only a secure grip but also protection against fall damage.

A "Hold" function and an automatic battery check rounds off the range of functions.



Delivery Content

- Basic unit
- Battery
- Protective armoring
- Warranty information
- Instruction manual

Applications

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

Technical Data	SensoDirect 110 pH	SensoDirect 110 Con	SensoDirect 110 Salt
Range / Resolution	0.00 ... 14.00 pH	0.000 ... 1.999 mS/cm 0.01 ... 19.99 mS/cm	0.01 ... 10.00 % salt
Accuracy	± 0.07 pH	± 3 % range	± 0.5 % range
Temperature compensation	-	automatically, 2 % / °C	
Calibration	custom (manually with adjusting screws)		
Display	52 x 37 mm LCD		
Data-Hold-Function	Yes		
Operating conditions	0 ... 50 °C, 0 ... 80 % rel. humidity (non condensing)		
Power Supply	9-V-Block Battery		
Weight	ca. 380 g (battery and protective armouring)		
Dimensions	208 x 110 x 34 mm (protective armouring)		
Protection class	IP 51		
Conformity	CE		
Order Info			
Instrument, electrode and accessories in stable case	721300	722300	723300
Instrument and electrode	721310	722310	-

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SD-Hand-held meters

Technical Data	SD 50 pH	SD 60 ORP
Range / Resolution	0.00 ... 14.00 pH	-1000.0 ... +1000.0 mV -1800 ... +1800 mV
Accuracy	± 0.05 pH	± 2 mV
Calibration	1-, 2- or 3-point calibration (automatically)	1-point calibration (custom)
Standards for automatic recognition	USA: 4.01 / 7.00 / 10.01 pH NIST: 4.01 / 6.86 / 9.18 pH	-
Temperature: Range / Resolution	0,0 ... 60,0 °C / 32,0 ... 140 °F	
Temperature: Accuracy	± 1 °C / ± 1,8 °F	
Auto-off	8 minutes non-use	20 minutes non-use
Temperature compensation	automatically	-
Battery life	> 350 hours (backlight OFF)	
Display	22 x 22 mm LCD, with backlight	
Memory	25 data sets with time and date	
Data-Hold-Function	Yes	
Operating conditions	0 ... 60 °C / 0 ... 80 % rel. humidity (non condensing)	
Power supply	2 x 1.5 V batteries, AAA	
Dimensions, Weight	205 x 44 x 33 mm, approx. 155 g with batteries	
Conformity	CE	
Order Info		
Instrument and Accessories in plastic box	194800-16	194801-16
Instrument and Accessories in case	194800-30	-
Replacement electrode	194820	194821

The **SD series** comprises a range of compact, easy-to-use, hand-held instruments for the accurate measurement of pH, ORP, Con, TDS or Salt. With robust housing and fully waterproof (IP67) casing, these testers are the ideal solution for in-situ testing in environmental, industrial or pool & spa applications.

The intuitive scroll-bar functionality and backlit display enable the easy measurement and simultaneous display of Result, Temperature, Date/Time and other Parameters.

With 25 sets of data storage, each with date and time stamp, the units also enable the easy recalling of data for record keeping requirements.

Designed and manufactured according to Lovibond® quality standards, the instruments are equipped with replaceable electrodes to ensure long-life functionality in the field.

Delivery Content

- Meter in a robust plastic case
- 2 x 1.5 V Batteries, AAA
- Hanging tab
- Instruction manual
- pH 4.01; 7.00 and 10.01 Buffer tablets 3 x 10 St. (SD50 pH only)
- pH 4.01 and 7.00 Calibration buffer and 2 x 100 ml measuring cup (SD50 pH in case only)



SD50 in case, Code: 194830-16



SD 70 Con	SD 80 TDS	SD 90 Salt/Salz
0 ... 1999 µS/cm 2.00 ... 20.00 mS/cm	0 ... 1499 ppm 1.50 ... 15.00 ppt	0 ... 999 ppm 1.00 ... 20.00 ppt 0.00 ... 2.00 %
± 3 % range		
1- or 2-point calibration (automatically or custom)	1- or 2-point calibration (custom)	
1413 µS/cm and 12.88 mS/cm	-	-
0.0 ... 60.0 °C / 32.0 ... 140 °F		
± 1 °C / ± 1.8 °F		
8 minutes non-use		
automatically, 2 % / °C		
> 100 hours (backlight OFF)		
22 x 22 mm LCD, with backlight		
25 data sets with time and date		
Yes		
0 ... 60 °C / 0 ... 80 % rel. humidity (non condensing)		
2 x 1.5 V batteries, AAA		
205 x 44 x 33 mm, approx. 155 g with batteries		
CE		
194802-16	194803-16	194804-16
-	-	-
194822		



AccessoriesSDInstruments

AccessoriesSD instruments										
Electrodes	Item	SD50 pH	SD60 Redox	SD 70 Con	SD80 TDS	SD90 Salt	SensoDirect110 pH	SensoDirect110 Con	SensoDirect110 Salt	
	pH Electrode type 231, plastic/gel/temperature (NTC 30 kOhm)									
	pH Electrode type 226, plastic/gel, universal use even at low conductivities					•				
	pH Electrode type 330, plastic/gel, universal use					•				
	pH Electrode type 235, glass/gel, for laboratory applications					•				
	SD 50 pH replacement electrode with temperature probe, universal use	•								
	Redox Electrode type 240, plastic/gel, universal use									
	Redox Electrode type 242, plastic/gel, universal use									
	SD 60 Redox replacement electrode, universal use		•							
	Conductivity probe LC12 (K = 0.55), 4-pole graphite, temperature probe NTC 10K incl. , universal use up to 200 mS/cm									
Conductivity probe LC16 (K = 0.42), 4-pole graphite, temperature probe Pt 1000 incl., universal use up to 1000 mS/cm										
Pure water conductivity probe (K = 0.1), 2-pole stainlesssteel, temperature probe NTC10K incl., low conductivities up to 200 µS/cm										
Conductivity probe type 110/150 (K = 1.0), 2-pole graphite, universal use						•				
Probe for salt type 110 (K = 1.0), 2-pole: graphite, universal use								•		
SD 70/80/90 replacement electrode, (K = 1.0), 2-pole: graphite, universal use			•	•	•					
Oxygen sensor, galvanic, Pt/Pb, cable length: 1.5 m										
Oxygen sensor, galvanic, Pt/Pb, cable length: 10 m										
Oxygen sensor, galvanic, Pt/Pb, cable length: 30 m										
Oxygen sensortype 150, polarographic,Au/Ag, universal use, cable length: 4m										
Temperature probe Pt1000, jack plug										
Temperature probe Pt 1000, banana plug										

	SensoDirect 150	SD 300 pH	SD 310 Oxi	SD 320 Con	Code
	• SET1				721231
•	• SET2				721226
•					721330
•	•				721235BNC
					194820
	•				721240BNC
•					721242
					194821
			• SET1		19805040
			• SET2		19805045
			• SET3		19805046
•					724400
					724430
					194822
		• SET1			19805050
		• SET2			19805051
		• SET3			19805052
•					724410
•					724420
	• SET2				721245



AccessoriesSD Instruments

Standards

Item	SD50 pH	SD60 Redox	SD70 Con	SD80 TDS	SD90 Salt	SensoDirect 110 pH	SensoDirect 110 Con	SensoDirect 110 Salt
pH 4.01 calibration buffer (traceable to N.I.S.T), 90 ml	•				•			
pH 7.00 calibration buffer (traceable to N.I.S.T), 90 ml	•				•			
pH 10.01 calibration buffer (traceable to N.I.S.T), 90 ml	•				•			
pH 4.01 / 7.00 / 10.01 calibration buffer-set (traceable to N.I.S.T), 90 ml each	•				•			
pH 4.01 calibration buffer (traceable to N.I.S.T), 1 l	•				•			
pH 7.00 calibration buffer (traceable to N.I.S.T), 1 l	•				•			
pH 10.01 calibration buffer (traceable to N.I.S.T), 1 l	•				•			
pH 4 buffer tablets, 100 pcs.	•				•			
pH 4 buffer tablets, 250 pcs.	•				•			
pH 7 buffer tablets, 100 pcs.	•				•			
pH 7 buffer tablets, 250 pcs.	•				•			
pH 10 buffer tablets, 100 pcs.	•				•			
pH 10 buffer tablets, 250 pcs.	•				•			
470 mV redox standard solution, 100 ml		•						
1413 µS/cm conductivity calibration solution (traceable to N.I.S.T), 500 ml			•			•		
988 ppm TDS calibration solution / 1413 µS/cm conductivity calibration solution, 100 ml				•				
9.02 ppt TDS calibration solution / 12.89 mS/cm conductivity calibration solution, 100 ml				•				
0.1 % salt calibration solution (NaCl), 100 ml					•			
0.5 % salt calibration solution (NaCl), 100 ml					•			
Service-Set oxygen sensor SD 310 Oxi, 3 spare membrane heads, KOH electrolyte (100 ml)								
KOH Spare electrolyte (100 ml)								
Spare membrane for oxygen sensor, 1 pc.								
Spare electrolyte for oxygen sensor, 30 ml								
Protection cap oxygen sensor for depth measurements, PVC								
Protection cap oxygen sensor for depth measurements, brass								
DC 9V power supply								
Storage solution pH/ORP-Electrodes, 3 M KCl, 25 ml	•	•			•			
Storage solution pH/ORP-Electrodes, 3 M KCl, 100 ml	•	•			•			
Deionised water (DI), 100 ml	•	•	•	•	•	•	•	•
Measuring beaker made of polypropylene, transparent, 100 ml	•	•	•	•	•	•	•	•
USB cable for data transfer								
GSOFT3050, Windows-Software (Data logger, Data transfer)								
Case with foam for SD 150								
Case with foam for SD series								
9-V-Block battery, 1 pc.					•	•	•	
1.5 V batteries AA, 2 pcs.								
1.5 V batteries AAA, 4 pcs.	•	•	•	•	•			

Miscellaneous

	SensoDirect 150	SD300 pH	SD310 Oxi	SD320 Con	Code
.	.				721247
.	.				721248
.	.				721249
.	.				721250
.	.				721252
.	.				721254
.	.				721256
.	.				515620BT
.	.				515621BT
.	.				515610BT
.	.				515611BT
.	.				515600BT
.	.				515601BT
.	.				195070
.			.		722250
.			.		467642
.			.		467643
					467631
					467621
		.			724670
		.			19801130
.					724460
.					724470
		.			19805055
		.			19805056
.					724540
.	.				726402
.	.				726404
.	.	.	.		461275
.	.	.	.		384801
	.	.	.		724620
	.	.	.		724625
.					725050
	.	.	.		725060
					1950012
.					1950010
	.	.	.		1950026