



**new!**

SD 305 pH  
SD 315 Oxi  
SD 325 Con



■ Applications

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



## Functions SD 305 pH

### Display of three different parameters

- pH
- Redox / ORP
- Temperature

### Optional 1-, 2- oder 3-point calibration

### Automatic buffer recognition

- Lovibond® standard buffer pH: 4.01 / 7.00 / 10.01
- pH buffer according to DIN 19266

### Status display of pH electrode

- Sensor evaluation after calibration

### Redox measurement

- Display as "mV" vs. Ag/AgCl (3 M KCl)
- Display as "mVH" vs. SHE according to DIN 38404-6

## SD 315 Oxi

### Display of three different parameters

- O<sub>2</sub>-Concentration
- O<sub>2</sub>-Saturation
- Temperature

### Simple calibration against watersaturated air

- recommended according to DIN EN ISO 5814

### Automatic pressure compensation

### Status display of oxygen probe

- Sensor evaluation in % after calibration

### Salinity correction (0.1 ... 70 PSU)

### Galvanic oxygen probe

- Ready for immediate use, no polarization time

## SD 325 Con

### Display of five different parameters

- Conductivity
- TDS
- Salinity
- Resistivity
- Temperature

### Automatic recognition of conductivity standards to adjust the cell constant

- Lovibond® standards 1413 µS/cm, 12.88 mS/cm

### Reference temperature 25 °C or 20 °C

### Conductivity probes for diverse application

- LC 12: < 200 mS/cm, universal use
- LC 16: < 1000 mS/cm, high conductivities
- LC 10: < 200 µS/cm, pure water

### Min-/Max-Value memory

### Automatic temperature compensation (ATC)

### Automatic power off

### Battery status indicator

### Alarm functions (optical or with sound)

### Auto-Hold function

### Shock resistant rubber protective armouring

### Robust electrode holder made of ABS

### Data logger with real time clock

### Data transmission and evaluation: Software GSOFT 350 (optional)



Technical Data	SD 305 pH/ORP	SD 315 Oxi
<b>Measurement range</b>	pH: -2.000 ... 16.000 pH Redox: -2000 ... +2000 mV Temperature: -5.0 ... +150.0 °C	O <sub>2</sub> -Concentration: 0.0 ... 70.0 mg/l O <sub>2</sub> -Saturation: 0.0 ... 600.0 % Temperature: -5.0 ... +50.0 °C Operating pressure (sensor): max. 3 bar ≈ 30 m water depth
<b>Accuracy</b>	pH: ± 0.005 pH Redox: ± 0.05 % FS Temperature: ± 0.2 °C	O <sub>2</sub> -Konzentration: 0 ... 25 mg/l ± 1.5 % v.MW ± 0.2 mg/l 25 ... 70 mg/l ± 2.5 % v.MW ± 0.3 mg/l Temperatur: ± 0.1 °C
<b>Calibration</b>	1 - 3 Point calibration (automatic or manual)	1 - 3 Point calibration (automatic)
<b>Connection</b>	pH, Redox: BNC-socket Temperature: Banana socket	O <sub>2</sub> /Temperature: 7-pin bayonet socket
<b>Operating conditions</b>	Temperature: -25 ... +50 °C; rel. Humidity: 0 ... 95 % (non-condensing)	
<b>Storage temperature</b>	-25 ... +70 °C	
<b>Power supply</b>	2 x AAA batteries (delivery content) or via USB-interface	
<b>Dimensions</b>	164 x 100 x 37 mm (L x W x H)	
<b>Weight</b>	302 g (incl. batteries and protective armouring)	
<b>Display</b>	LCD, 52 x 40 mm, 4 1/2 digit 7-segment	
<b>Data storage</b>	Manual logger: 1000 data sets (value storage on key press) Automatic logger: 10000 data sets (cyclic, time interval: 1 ... 3600 s)	
<b>Protection class</b>	IP 67	
<b>Conformity</b>	CE	

Order Info / Delivery content :		
<b>SD 305 pH/ORP</b>	<b>SD 315 Oxi</b>	
Instrument in protective armouring, electrode holder, pH buffer: 4.01 / 7.00 / 10.01 (Set-1 / Set-2), redox standard solution 470 mV (Set-3), storage solution for pH/ORP-electrodes, AAA batteries, instruction manual	Instrument in protective armouring, electrode holder, KOH electrolyte, spare membranes, calibration bottle, AAA batteries, instruction manual	
<b>Electrode depending on Set</b>		
<b>Set 1-pH</b> 724640 pH/Temp. electrode type 231	<b>Set 1-Oxi</b> 724680	Oxygen probe, Pt/Pb, galvanic, cable length: 2 m
<b>Set 2-pH</b> 724641 pH-electrode type 226, temperature probe Pt1000	<b>Set 2-Oxi</b> 724690	Oxygen probe, Pt/Pb, galvanic, cable length: 10 m
<b>Set 3-ORP</b> 724642 ORP-electrode type 240, temperature probe Pt1000	<b>Set 3-Oxi</b> 724695	Oxygen probe, Pt/Pb, galvanic, cable length: 30 m
<b>Base unit</b> 724630 without electrode		



SD 305 pH in case



SD 315 Oxi in case

## SD 325 Con

Conductivity:	0.000 ... 1000 mS/cm (Display range)
TDS:	0.000 ... 5000 mg/l
Salinity:	0.0 ... 70.0 PSU (Practical Salinity Unit)
Resistivity:	0.000 ... 50.0 M $\Omega$ *cm
Temperature:	-5.0 ... 100.0 °C

- \* Measurement range depending on electrode
- LC 12 (< 200 mS/cm; cell constant ca. 0.55 cm<sup>-1</sup>)
  - LC 16 (< 1000 mS/cm; cell constant ca. 0.42 cm<sup>-1</sup>)
  - LC 10 (< 200  $\mu$ S/cm; cell constant ca. 0.1 cm<sup>-1</sup>)

Conductivity:	$\pm$ 0.5 % v. MW $\pm$ 0.1 % FS
Temperature:	$\pm$ 0.2 °C

1 Point calibration (automatic or manual)

Con/Temperature: 7-pin bayonet socket

Temperature: -25 ... +50 °C; rel. Humidity: 0 ... 95 % (non-condensing)

-25 ... +70 °C

2 x AAA batteries (delivery content) or via USB-interface

164 x 100 x 37 mm (L x W x H)

302 g (incl. batteries and protective armouring)

LCD, 52 x 40 mm, 4 1/2 digit 7-segment

Manual logger: 1000 data sets (value storage on key press)

Automatic logger: 10000 data sets (cyclic, time interval: 1 ... 3600 s)

IP 67

CE

## SD 325 Con

Instrument in protective armouring, electrode holder (Set-1 / Set-2), standard solution according to NIST 1413  $\mu$ S/cm + 12.88 mS/cm (Set-1 / Set-2) flow-cell for low conductivities (Set-3) AAA batteries, instruction manual

<b>Set 1-Con</b>	724740	Conductivity probe LC 12 (4 pole graphite, < 200 mS/cm)
<b>Set 2-Con</b>	724750	Conductivity probe LC 16 (4-pole graphite, < 1000 mS/cm)
<b>Set 3-Con</b>	724760	Conductivity probe LC 10 (2-pole stainless steel, < 200 $\mu$ S/cm)



SD 325 Con in case

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