

PRODUCT INFORMATION

LABORATORY ANALYSIS

SESSION 5



SESSION 5 - Measurement of Conductivity, TDS and Salinity in the field

- 4-electrode conductivity cell for measurement of the complete range from pure water to waste water
- Linear temperature compensation
- Non linear (natural water) temperature compensation according to DIN 38 404 and EN 27 888
- One point calibration or manual input of cell constant
- Data memory
- Download/print data via docking station
- IP67 waterproof



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Technical data

Range	
– Conductivity	0 to 199.9 µS/cm; 200 to 1999 µS/cm; 2 to 19.99 mS/cm; 20 to 199.9 mS/cm.
– TDS	0 to 50000 mg/l as NaCl
– Salinity	0 to 42 g/l (ppt)
– Temperature	– 10.0 to 110.0°C
Resolution	
– Conductivity	0.01 µS; 0.1 µS; 1 µS; 0.01 mS; 0.1 mS
– TDS	3 significant digits
– Salinity	0.1 g/l (ppt)
– Temperature	± 0.1°C
Accuracy	
– Conductivity	± 0.5% in first three ranges; 1.0% at highest range
– TDS	± 0.5% of full scale
– Salinity	± 0.1 ppt (– 2 to 35°C)
– Temperature	± 0.3°C at 0–70°C; ± 1.0°C at 70–110°C
Outputs	One way, RS-232, via docking station
Inputs	One 5-pin with temperature
Power Requirements	4 AA batteries or 110 to 220 VAC line power through docking station
Autoread	On/off
Data memory	99 point memory
Display	Custom LCD
Conversion Factor for TDS	Adjustable automatic or user-adjustable
Temperature Compensation	Non linear (natural water, according to DIN 38 404 and EN 27 888) Linear coefficient [numeric value]%/°C No compensation Reference temperature 20 or 25°C
Calibration	Conductivity Test: one point calibra- tion with standard solution. Manual input of cell constant.
Calibration Review	User-activated; shows last calibration date, standards used
Battery Life	6 month typical use (approx. 500 hrs. continuous)
Low-Battery Indicator	Yes
Waterproof	IP67
Dimensions	21.2 x 8.7 x 4.2 cm (8.35 x 3.43 x 1.65")

Ordering information

INSTRUMENT	ART. NO.
SESSION 5 Conductivity Meter without conductivity cell	5180000
SESSION 5 Conductivity Meter with 4-electrode conductivity cell (1 m)	5180010
SESSION 5 Conductivity Meter with 4-electrode conductivity cell (3 m)	5180011
SESSION 5 with 4-electrode conductivity cell (1 m) and 115 V Docking Station	5180013
SESSION 5 with 4-electrode conductivity cell (1 m) and 230 V Docking Station	5180014
SESSION 5 with 4-electrode conductivity cell (3 m) and 115 V Docking Station	5180015
SESSION 5 with 4-electrode conductivity cell (3 m) and 230 V Docking Station	5180016
CONDUCTIVITY STANDARD SOLUTIONS	
180 ± 10 µS/cm, 90 ± 5 mg/l TDS (85.47 mg/l as NaCl), 100 ml	2307542
1000 ± 10 µS/cm, 500 ± 5 mg/l TDS (491 mg/l as NaCl), 100 ml	1440042
1990 ± 20 µS/cm, 995 ± 5 mg/l TDS (1000 mg/l as NaCl), 100 ml	210542
18000 ± 50 µS/cm, 9000 ± 25 mg/l TDS (10246 mg/l as NaCl), 100 ml	2307442
53000 µS/cm, 35.0 ppt salinity, 500 ml	2714349
SINGLET 1000 ± 10 µS/cm, 500 ± 5 mg/l TDS (491 mg/l as NaCl), pk/20, 25 ml	2770520
SINGLET 18000 ± 50 µS/cm, 9000 ± 25 mg/l TDS (10246 mg/l as NaCl), pk/20, 25 ml	2770720
SINGLET 53000 µS/cm, 35.0 ppt salinity, pk/20, 25 ml	2770820
OPTIONAL ACCESSORIES	
4-electrode conductivity cell (1 m)	5197500
4-electrode conductivity cell (3 m)	5197503
Docking station 115 V	5187501
Docking station 220 V	5187502
Carrying case (soft-sided)	5190400
Carrying case (hard-sided)	5190300
Replacement batteries, AA, pk/4	1938004
LIS chamber (low ionic strength samples)	5189900
HachLink 2000 software for PC	4966500
Computer serial (RS232) cable	4967100
Kyoline Brand Thermal Printer with cable, 230 V	A70P020
Kyoline Brand Thermal Printer with cable, 115 V	A70P021
Thermal Paper for Kyoline Printer, pk/10 rolls	A70P025

HACH LANGE Services

Orders, information and
consultation without delay:
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