



Lab and ProLab Series

MEASUREMENT OF pH, ISE, CONDUCTIVITY AND
DISSOLVED OXYGEN - ACCURATE, RELIABLE AND SENSITIVE

SI Analytics

a xylem brand

Lab 745, Lab 845 and Lab 945

User-friendly design for training and routine measurements.

Its intuitive operation and robust aluminum housing render the Lab x45 product series perfect for training and routine purposes.



Lab 845

Lab 845 Set



Lab 745 DO Meter, Lab 845 pH Meter,

Ordering information

Type No.	Order No.	Description
Lab 745 Set	285206800	Measuring ranges 0.01...20 mg/l DO. Set includes stand, power supply, and DO measuring cell Ox1113T
Lab 845 Set/BL19pH	285206810	Measuring pH, mV, ISE, temp., 2-point-cal., micropr., BNC connection. Set includes stand, power supply, BlueLine 19 pH, and DIN buffers in ampules (6 pieces)
Lab 845 Set/BL25pH	285206820	Measuring pH, mV, ISE, temp., 2-point-cal., micropr., BNC connection. Set includes stand, power supply, BlueLine 25 pH, and DIN buffers in ampules (6 pieces)
Lab 845 Set/BL29pH	285206830	Measuring pH, mV, ISE, temp., 2-point-cal., micropr., BNC connection. Set includes stand, power supply, BlueLine 29 pH, and DIN buffers in ampules (6 pieces)
Lab 945 Set/LF435T	285206840	Measuring ranges 0.000 µS/cm...500 mS/cm, salinity, total dissolved solids (TDS), temperature. Set includes stand, power supply, cond. cell LF435T, and cond. testing solution in ampules (6 pieces)
Lab 945 Set/LF513T	285206850	Measuring ranges 0.000 µS/cm...500 mS/cm, salinity, total dissolved solids (TDS), temperature. Set includes stand, power supply, cond. cell LF513T, and cond. testing solution in ampules (6 pieces)
Lab 945 Set/LF613T	285206860	Measuring ranges 0.000 µS/cm...500 mS/cm, salinity, total dissolved solids (TDS), temperature. Set includes stand, power supply, cond. cell LF613T, and cond. testing solution in ampules (6 pieces)
Z 611	285206380	Connector, stand, and electrode holder for Lab 745/845/945
Z 612	285206390	Universal power supply for Lab 745/845/945
Z 613	285206400	USB cable with data transfer software for Lab 745/845/945
Z 614	285206430	Rubber pads for Lab 745/845/945 (4pcs)
Ox 1113T	285206410	Membrane covered amperometric sensor, plastic shaft, with temperature compensation, 1 m fixed cable with 8-pole plug, length 120 mm, 12 mm Ø, -5...+45 °C
LF 435T	285206420	4 pole cell, plastic shaft, 1.5 m cable with 8 pole plug, sensor material graphite, cell constant 0.33 cm ⁻¹ , temp.-sensor NTC30kOhm, length 120 mm, 12 mm Ø, -5...+80 °C
Z 615	285206440	Maintenance set for Ox1113T (3 x exchange heads, 10 x electrolytes)
Z 616	285206450	Cable for connecting a RS232 printer to Lab 745/845/945

Technical data:

Lab 745 DO Meter

Measuring range	0 ... 200 %; 0 ... 20 mg/l; temperature: -10 ... 100 °C
Resolution	1 %; 0.01 mg/l; 0.1 °C
Temperature compensation	Automatic with NTC30kOhm or fixed temperature
Accuracy	±1 digit, ± 0.5 % of the measuring range, T [°C] ± 0.1 (5...50 °C)
Connectors	8-pole sensor socket, 4-pole USB interface socket
Calibration	Direct input
	Temperature offset
	Single-point
	Automatic
Data storage	4.000 Entries with date, time, value 1+2 and temperature

Lab 945 Conductivity Meter

Lab 845 pH Meter

Measuring range	pH: 0 ... 14; - 1,999 ... 1,999 mV;
	Temperature: -10 ... 100 °C
	ISE: 0 ... 30,000 ppm
Resolution	0.01 pH; 1 mV; 0.1 °C
Accuracy	pH: ± 0.01 (± 2 pH around calibration point), U [mV] ± 0.3 , T [°C] ± 0.1 (0..100 °C)
Temperature compensation	automatic with Pt1000 or fix temperature
Connectors	BNC, 2 x banana socket (4 mm), 4-pole USB Interface socket
Calibration	Direct input
	Temperature offset
	Two-point
	Automatic (DIN19266, TechDIN19267, Merck, Mettler)
Data storage	4.000 Entries with date, time, value 1+2 and temperature

Lab 945 Conductivity Meter

Measuring range	0 ... 200 $\mu\text{S/cm}$; 0 ... 2,000 $\mu\text{S/cm}$; 0 ... 20 mS/cm ; 0 ... 500 mS/cm ;
	Automatic range
	TDS: 0 ... 200 mg/l ; 0 ... 2,000 mg/l ; 0 ... 20 g/l ; 0 ... 500 g/l
	Salinity: 0 ... 70 (after IOT)
	Temperature: -10 ... 100 °C
Resolution	0.1 μS ; 1 μS ; 0.01 mS ; 0.1 mS ; 0.1 °C
Accuracy	± 1 digit, ± 0.5 % of the measuring range, T [°C] ± 0.1 (5...50 °C)
Temperature compensation	Automatic with NTC30kOhm or fixed temperature
Connectors	8-pol sensor socket, 4-pole USB interface socket
Calibration	Direct input
	Temperature offset
	Single-Point
	Automatic
Data storage	4.000 Entries with date, time, value 1+2 and temperature

For all:

Display	Graphic LCD Display, 128 x 64 pixel, backlid
Interface	USB, isolated
Ambient temperature	-10 ... 55 °C
Housing protection	Aluminum IP40
Dimensions	145 x 185 x 55 mm (L x W x H)
Weight	Approximatly 1 lb 9 oz (incl. power supply and stand)
EMC	Acc. EN 61326 class B