



SI Analytics

Lab Series

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

По вопросам продаж и поддержки обращайтесь:

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Lab 745, Lab 845 and Lab 945

User-friendly design for training and routine measurements.

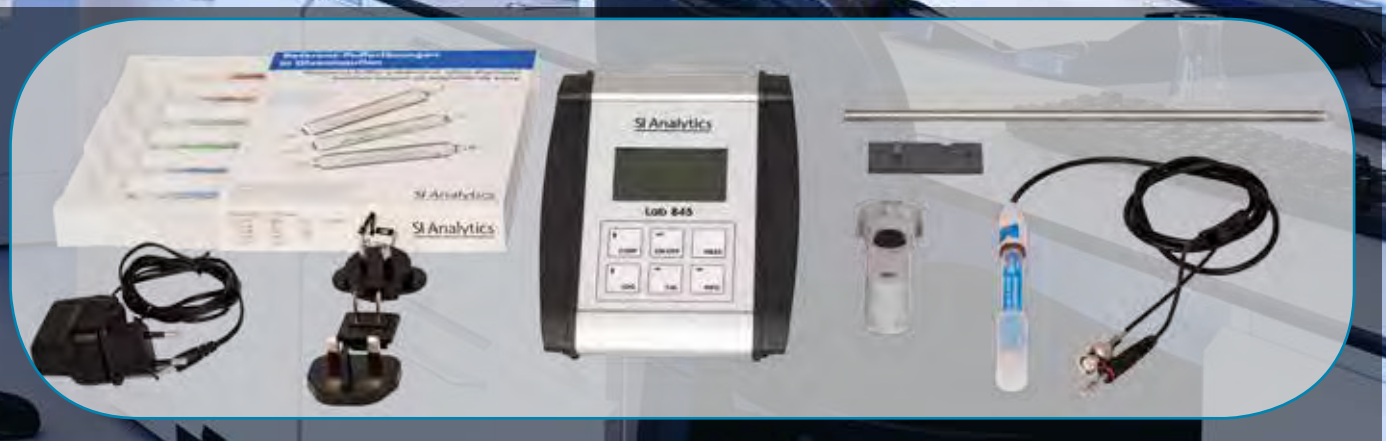
Its intuitive operation and robust aluminum housing render the Lab x45 product series perfect for training and routine purposes.



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., 3-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., 3-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., 3-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	20 mg/	ature: -	100
Resolution	1 %; 0.01 mg/l; 0.1 °C			
Temperatur 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
	Three-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 $\mu\text{S}/\text{cm}$; 0 ... 2,000 $\mu\text{S}/\text{cm}$; 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

Lab 855, Lab 865, and Lab 955

Precise. Reliable. Selective.

The Lab 855, Lab 865, and Lab 955 unite the most modern measuring technology available along with new functionality such as AutoRead and CMC (measuring range monitoring) which makes lab measurements even more reliable.

The newly designed, clearly structured keyboards are adapted to operators' logic with tactile feedback as well as large, easy-to-read displays which are used to support and enhance the interface between the meter and the user.



Precise measurements ...

... with Lab 855 and Lab 955



Reliable documentation ...

... with Lab 865



Precise measurements...

... with Lab 855 and Lab 955.



Modern meters for everybody who wants to simply measure accurately.

The Lab 855 for pH and Lab 955 for conductivity measurements are perfectly suited benchtop meters for measurements in laboratories in the chemical and pharmaceutical industries as well as in medical labs.

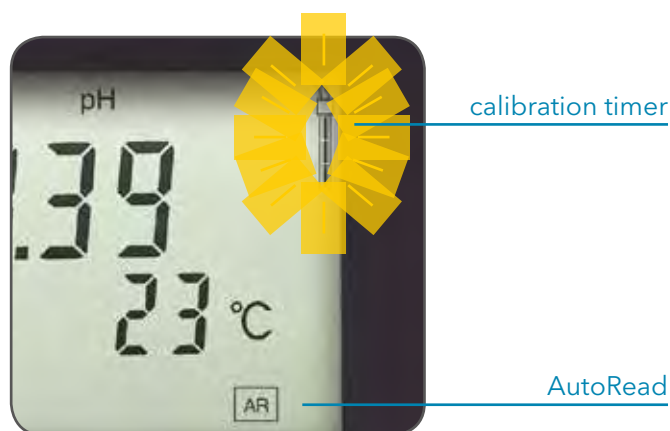
Precise measurements

Users achieve reproducible measured results due to the active automatic AutoRead function with independent detection of stable measuring values. An adjustable calibration timer assists in an increased improvement of the accuracy.

Easy to operate

The user-friendly keyboard with large, easy to read LCD display, deliver all relevant information at a glance.

Type No.	Order No.	Description
Lab 855 Set	285206700	Simple, easy-to-use pH/mV benchtop meter (DIN) with universal power supply, stand and operating instructions, pH electrode BlueLine 14 pH, buffer solutions, 3 mol/l electrolyte solution.
Lab 955 Set	285206760	Simple, easy-to-use conductivity benchtop meter. Set includes conductivity measuring cell, device with universal power supply, stand, 4-pole graphite cell LF413T, and 0.01 mol/l KCl conductivity standard.



- ▶ Reproducible measuring results with active AutoRead function
- ▶ Simple calibration with adjustable calibration timer
- ▶ Intuitive operation with clearly arranged keyboard

Benefits
Lab 855 / Lab 955

Also available as application-oriented sets with sensors, including power supply and stand.

Reliable documentation...

... with Lab 865



Precise measurements with documentation

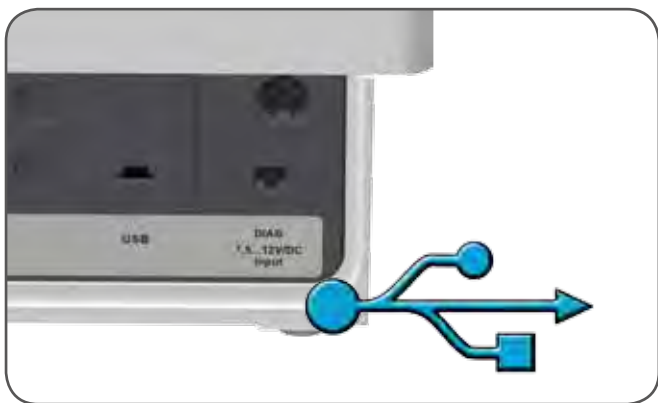
The Lab 865 is perfect for pH measurements in quality assurance labs requiring the documentation for GLP. Built on the Lab 855 platform, the Lab 865 offers additional convenient functionality:

- **Data transfer via USB interface**
- **Manual or timer controlled data logging of measured values .**
- **Protocols include date, time, and ID and sensors serial numbers for GLP compliance.**
- **Data is transferred in *.csv format.**
- **Excel Add-in included for the formatted output of all data and calibration protocols.**

Also available as an application-oriented set with sensor, power supply and stand.

Lab 865

- USB interface for rapid data transfer



Data output in *.csv format

Type No.	Order No.	Description
Lab 865 Set	285206710	Measuring parameters pH, mV, temp., 5-point-cal., micropr., Mini USB-B, data storage, DIN 19262 connect. Including stand, power supply, pH-temp. comb. electrode BlueLine 14 pH, calibr. solutions.



CMC function

- Easy to use
Graphic display with text menu for easy handling.
- pH measurement on sight
Optimize measuring results: With the new CMC function to monitor the congruency of measuring and calibration range for pH.

Benefits
Lab 865

Lab 855, Lab 865, and Lab 955

Connectivity

Lab 855



Lab 865



Lab 955



Technical data

Model	Lab 855		Lab 865		Lab 955	
Temperature compensation	Automatic/manual		Automatic/manual		Automatic, can be switched off	
Calibration points	1 to 3		1 to 5 pH, 2-7 ISE		1	
Calibration records	1		10		1	
Calibration timer	■		■		■	
Memory entries			500/5000*			
Interface			Mini USB-B			
GLP/AQS supporting			■			
Display	LCD		Graphic b/w, backlit		LCD	
Electrode connection	DIN		DIN		8-pin	
Additional			CMC, input of sensor serial number			
Power supply	Battery or universal power supply		Battery or universal power supply		Battery or universal power supply	
pH	- 2.0	20.0 ± 0.1 pH	- 2.0	20.0 ± 0.1 pH		
	- 2.00	20.00 ± 0.01 pH	- 2.00	20.00 ± 0.01 pH		
	- 2.000	19.999 ± 0.005 pH	- 2.000	19.999 ± 0.005 pH		
mV	± 1200.0 ± 0.3 mV		± 1200.0 ± 0.3 mV			
	± (2000 ± 1) mV		± (2500 ± 1) mV			
Temperature	- 5.0	105.0 °C ± 0.1 °C	- 5.0	105.0 °C ± 0.1 °C		
CMC			■			
Conductivity					0.00 ... 1000 mS/cm ± 0.5 % of meas. val. 0.000 ... 1.999 µS/cm, K = 0.01 cm ⁻¹ 0.000 ... 1.999 µS/cm, K = 0.01 cm ⁻¹ 0.00 ... 19,99 µS/cm, K = 0.1 cm ⁻¹	
Specific resistance					0.00 ... 199.9 MΩcm	
Cell constants fix					0.01 cm ⁻¹	
with calibration					0.450 ... 0.500 cm ⁻¹ 0.800 ... 0.880 cm ⁻¹	
adjustable					0.090 ... 0.110 cm ⁻¹ 0.250... 2.500 cm ⁻¹	
Salinity					0.0 ... 70.0 (nach IOT)	
TDS					1 ... 1999 mg/l	
Temperature					-5.0 ... 105.0 °C ± 0.1 °C	
T _{ref}					20 °C/25 °C	
Temperature compensation					none, nIF, 0.000 ... 3.000 %/K	

all measured values ± 1 decimal place

* manual/autom tic

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