



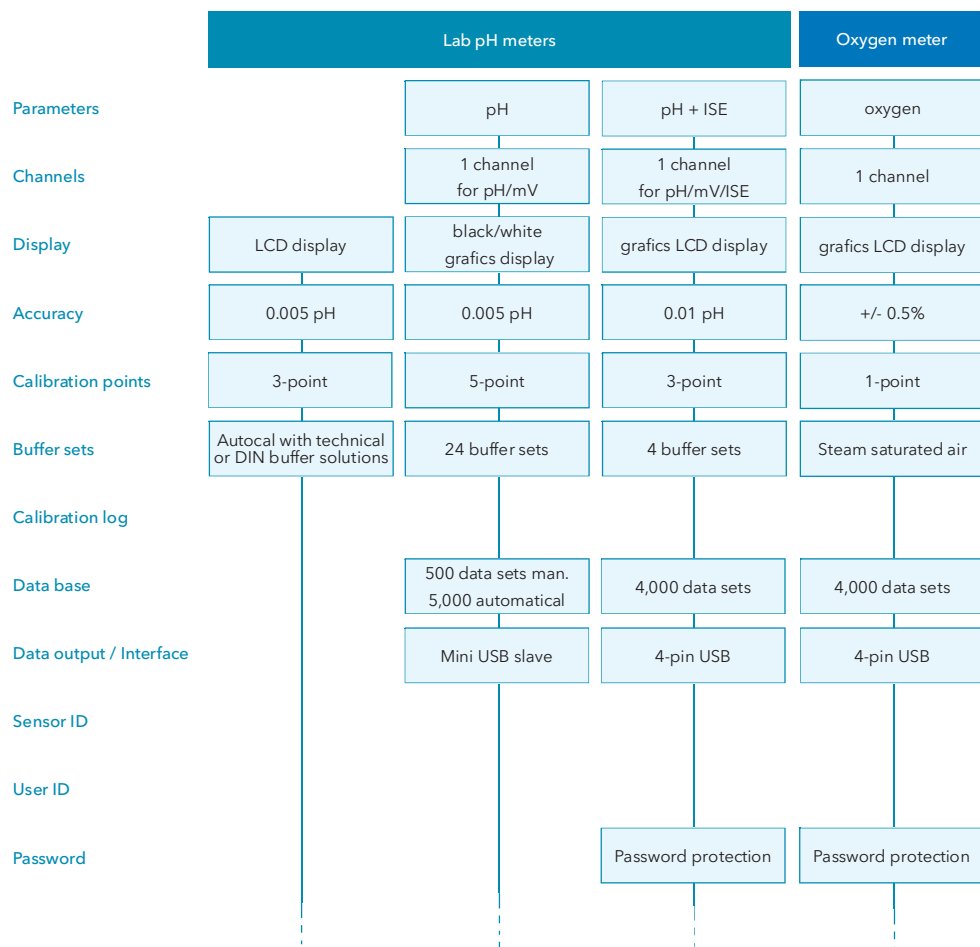
Meters and Electrodes

pH, ISE, COND AND O₂ | PRECISE - RELIABLE - SELECTIVE
IN LAB AND FIELD

SI Analytics
a **xylem** brand

1.1 Meters decision tree

Laboratory meters Lab and ProLab series



Lab 855



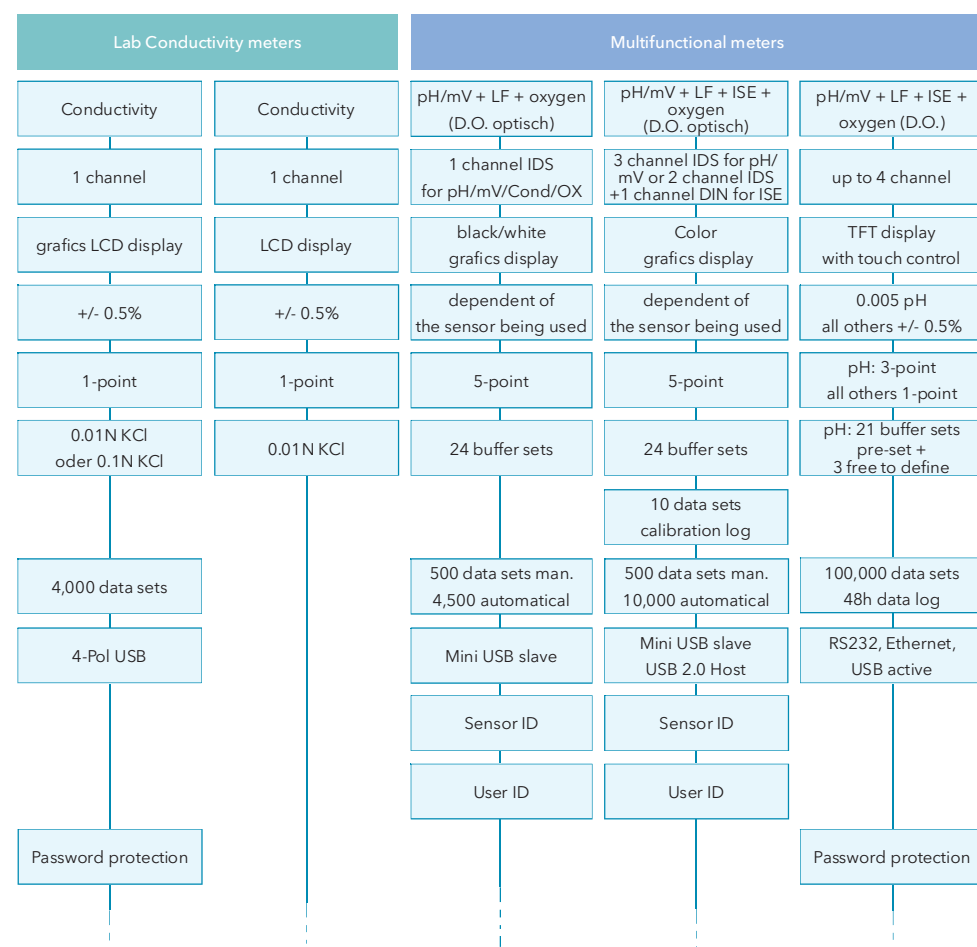
Lab 865



Lab 845



Lab 745



Lab 945



Lab 955



Lab 875 (P)



ProLab 2500



ProLab 5000

*Product pictures are not to scale

Functionalities at a glance

Laboratory meters Lab and ProLab series

Features	Lab 745	Lab 845	Lab 945	Lab 855	Lab 865	Lab 875	Lab 875 P	ProLab 2500	ProLab 5000
Page	8	8	8	10	10	12	14	16	20
Measuring parameters & special functions									
pH	■	■		■	■	■	■	■	■
Measuring channels (electrically isolated)	1	1	1	1	1	1	1	3	4
4 pre-programmed pH buffer sets		■							
24 pre-programmed pH buffer sets					■	■	■	■	
21 pre-programmed and 3 free defineable pH buffer sets									■
automatic buffer recognition display		■	■	■		■	■	■	■
pH calibration points, max.		3		3	3	5	5	5	3
ConCal: manual calibration with optional buffers		■			■	■	■	■	■
mV		■		■	■	■		■	■
ISE		■						■	■
Activation of external burettes in ISE measuring mode									■
Conductivity			■				■	■	■
Oxygen (diss.), optical (ProLab 5000: amperometrical)						■	■	■	■
Temperature - simultaneous display	■	■	■	■	■	■	■	■	■
GLP and ease of use									
Automatic recognition of IDS sensors						■	■	■	
Automatic user recognition						■	■	■	■
Additional password security	■	■	■			■	■	■	■
Sensor evaluation	■	■	■	■	■	■	■	■	■
Programmable frequency of checks				■	■	■	■	■	■
Display of current calibration data including date / time	■	■	■	■	■	■	■	■	■
Display of calibration history (10 records) incl. date / time					■	■	■	■	
Measurement with stability control					■	■	■	■	
Adjustable resolution of measuring value	■	■	■	■	■	■	■	■	
Display	LCD graphics	LCD graphics	LCD graphics	LCD	LCD	LCD	B/W LCD graphics	QVGA-colour	QVGA-colour
Recording function (Display of measured values)		■							■
Tactile feedback	■	■	■	■	■	■	■	■	■
Data storage	■	■	■		■	■	■	■	■
USB (Slave)		■	■	■	■	■	■	■	■
USB host interface: plug-and-play connection of USB hub, USB printer, USB storage, keyboard, mouse								■	■
Quality and service									
Scope of delivery:									
• Device, power supply and tripod	■	■	■	■	■	■	■	■	
• Set: plus electrode and buffer									
IQ and OQ documents available	■	■	■	■	■	■	■	■	■
Applicable for 3 years warranty	■	■	■	■	■	■	■	■	■



1.1.2 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.

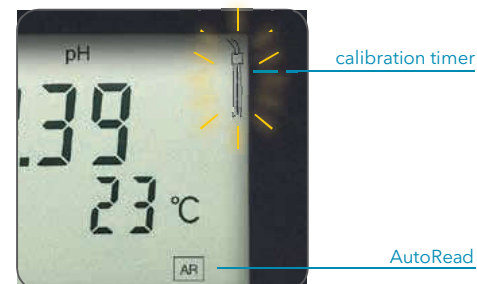
Precise measurements

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

Reliable documentation...

... with Lab 865



Precise measurements with documentation

Lab 865

- USB interface for rapid data transfer



Data output in *.csv format

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.

Modern documentation via USB

Transmission of measured values or other data to PCs is possible via the modern USB interface. Automatic recording of measured values enables the time-controlled data logger. Protocols including date, time and ID numbers support the good laboratory practice as well as the possibility to enter the sensor's serial number. Measurement data is transmitted in *.csv format. A supplied Excel add-in is used for the formatted output of all data and calibration protocols.

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.



Lab and ProLab



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

Also available as application set incl. sensor, power supply and stand..

1.1.2.1 Lab 855, Lab 865 und 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	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 - 2.00 ... 20.00 ± 0.01 pH - 2.000 ... 19.999 ± 0.005 pH	- 2.0 ... 20.0 ± 0.1 pH - 2.00 ... 20.00 ± 0.01 pH - 2.000 ... 19.999 ± 0.005 pH	
mV	± 1200.0 ± 0.3 mV ± (2000 ± 1) mV	± 1200.0 ± 0.3 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/automatic