



sartorius



Sartorius DocuClip[®] &
Docu-pH_{Meter}

The new standard
for reliability
in electrochemical
analysis

Docu-pH_{Meter}

A solid basis for reliable measurements

Reliability starts with easy and comprehensible operation. With the newly developed Docu-pH_{Meter} instruments, Sartorius is setting new standards in the determination and management of measured values. Equipped with a graphic display and easy-to-use soft keys, all Docu-pH_{Meter} models are practical meters that make even complex laboratory tasks simple.

You can choose between "intelligent" electrodes connected to DocuClip® and standard electrodes with a BNC connector.

Two models for pH measurement offer you top-quality instruments, right from the start, for the most frequently used applications. Additional models, such as conductivity meters, will be available soon.



DocuClip®

One-click reliability



Comprehensive features – simple results

- Graphic display and soft keys
- Easy-to-understand menu-driven prompts in plain language
- Defined function keys for the most common applications; no double-assigned keys
- Fast mode for rapid results
- Automatic recognition of DocuClip®
- Automatic recognition of a variety of temperature probes
- Serial interface for data transfer to computer or printer (Docu-pH⁺_{Meter})
- Memory capacity for 500 data records (Docu-pH⁺_{Meter})

Give each of your electrodes their own identity. DocuClip® is a unique device that makes an electrode 100% identifiable, in just seconds. Equipped with built-in memory for calibration data, DocuClip® works together with the Sartorius Docu-pH_{Meter} to store essential electrode specifications over its entire service life.

In addition to model designation and individual serial number, DocuClip® stores all data from initial calibration, including pH, mV, temperature – indicating manual or automatic temperature measurement – and the slope and zero point of the pH electrode, as well as the date and time of calibration.

Moreover, data from the four most recent calibrations is always available for the entire service life of the electrode. DocuClip® deletes older data to make room for the latest calibration report. With Docu-pH_{Meter} you can view the history of an electrode at any time. This gives you a ready overview of electrode quality.

Electrode data is automatically logged 100% at each measurement, and can be sent to a printer or exported to a computer for further processing.

Specifications



	Docu-pH _{Meter}	Docu-pH ⁺ _{Meter}
pH Measurement		
Measuring range	-2.000 to +20.000	
Readability	0.001 0.01 0.1, selectable	
Accuracy	± 0.005	
mV Measurement		
Measurement range in mV	-2000.0 to +2000.0	
Readability in mV	0.1 1, selectable	
Accuracy in mV	± 0.2 < 1000	± 1 > 1000
Temperature Measurement		
Temperature range in °C	-5 to 105 (23 to 221°F)	
Readability in °C	0.1	
Accuracy in °C	± 0.2	
Temperature compensation	Automatic or manual from -5° to 105°C	
Buffer recognition	Automatic: technical buffers, DIN/NIST buffers	
Calibration points, max.	3	
Date time battery-supplied	-	×
Sample IDs	-	×
Calibration reminder	-	×
Complete GLP-compliant record printout	-	×
Memory for measurement data	-	×
Communication with DocuClip®	×	×
Input for pH combination electrodes	BNC	BNC
Input for temperature probe: ATC 10 kΩ, ATC 30 kΩ, Pt1000	2.5 mm phone jack	2.5 mm phone jack
RS-232C interface	-	×
Dimensions in mm	89 × 229 × 145	
Weight in kg	1	

DocuClip® & Docu-pH_{Meter} let you close the reliability gap in electrochemical analysis



New reliability standard in accordance with GLP and ISO 17025

Laboratory work, particularly in the areas of chemical and pharmaceutical research, requires 100% traceable documentation. Conventional procedures, however, still hold some risks:

Sensors that have been used may be mixed up.

An electrode may have been used so often that it is no longer fully effective – but how can you tell?

Manual recording of electrode identification is error-prone.

DocuClip® & Docu-pH_{Meter} from Sartorius are setting new standards for documentation of results in electrochemical analysis.

Permanent allocation of identifying and calibration data to a particular pH electrode gives you complete reliability.

It is no longer possible to mix up electrodes.

The quality and effectiveness of electrodes can be checked at any time.

Documentation of calibration data is fully automatic, making it both easy and reliable.

It is entirely up to you whether you use your own electrodes or pre-calibrated electrodes from Sartorius.

One click gives you complete reliability...

...with confidence supplied by Sartorius.

Choice of Standard Features

Docu-pH _{Meter}	Order Number	
Measuring instrument incl. technical buffer, power supply, operating instructions	Docu-pH	Docu-pH+
...with electrodes and DocuClip® for unique, 100% traceable data recording		
pH electrodes with:		
Plastic body, refillable, fiber junction, ATC 10 kΩ	Docu-pH P10doc	Docu-pH+ P10doc
Glass body, refillable, platinum junction, ATC 10 kΩ		Docu-pH+ P11doc
Plastic body, gel-filled, fiber junction, ATC 10 kΩ	Docu-pH P12doc	Docu-pH+ P12doc
Plastic body, gel-filled, fiber junction	Docu-pH P20doc	Docu-pH+ P20doc
Glass body, refillable, platinum junction		Docu-pH+ P21doc
...with conventional electrodes		
pH electrodes with:		
Plastic body, refillable, fiber junction, ATC 10 kΩ	Docu-pH P10	Docu-pH+ P10
Glass body, refillable, platinum junction, ATC 10 kΩ		Docu-pH+ P11
Plastic body, gel-filled, fiber junction, ATC 10 kΩ	Docu-pH P12	Docu-pH+ P12
Plastic body, gel-filled, fiber junction	Docu-pH P20	Docu-pH+ P20
Glass body, refillable, platinum junction		Docu-pH+ P21
DocuClip®		
... For unique, 100% traceable documentation of calibration for any pH electrodes Initialization by the user with Docu-pH _{Meter} (Docu-pH _{Meter} +) required	DocuClip®	

Accessories

	Order Number
Printer	YDP05-PH
Color-coded standard solution in practical pump-bottle, traceable to NIST standards	
pH = 4.00 ± 0.01 at 25°C, 500 ml	PY-Y21
pH = 7.00 ± 0.01 at 25°C, 500 ml	PY-Y22
pH = 10.00 ± 0.01 at 25°C, 500 ml	PY-Y23
Electrolyte solution for pH combination electrodes KCl, 3 mol/l, silver ion-free, 500 ml	PY-Y07
Cleaning solution, pepsin/hydrochloric acid, 500 ml	PY-Y06

Sartorius AG
Weender Landstrasse 94-108
37075 Goettingen, Germany

Phone +49.551.308.0
Fax +49.551.308.3819

www.sartorius.com

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