



# 781 pH/Ion Meter

2.781.0010

Además de la medida de pH, iones, tensión y temperatura, el 781 pH/Ion Meter combinado cuenta con un control automático del agitador, una calibración multipunto con hasta 9 tampones (modo de pH), una memoria de métodos y varias funciones de supervisión. El test del electrodo de pH automático y conforme a las PCL permite realizar la evaluación objetiva del electrodo. La pantalla multilínea retroiluminada de gran tamaño proporciona una visión conjunta y facilita los ajustes individuales. La interface bidireccional RS232 permite la transferencia de datos a una impresora o a un ordenador.

Existen tres diferentes modos de medida de iones: la medida directa, la adición de patrón o la adición de muestras. En la adición automática de patrón con un Dosimat opcional, solo es necesario indicar la concentración del patrón y la cantidad deseada de fases de adición; del resto se ocupa el pH-metro o el ionómetro. Se pueden utilizar hasta 19 patrones para la calibración para la medida directa.

## Partes/accesorios 2.781.0010

| Qt. | Order no. | Descripción |
|-----|-----------|-------------|
|-----|-----------|-------------|

In addition to pH, ion, voltage and temperature measurement, the combined 781 pH/Ion Meter also offers an automatic stirrer control, a multi-point calibration with up to nine buffers (pH mode), a method memory and various monitoring functions. The automatic pH electrode test in conformance with GLP permits objective assessment of the electrode. The large backlit multi-line display provides an overview and makes the individual settings easy. The bi-directional RS-232 interface enables data transfer to a printer or PC.



Three different modes are available for ion measurement: direct measurement, standard or sample addition. In the case of fully automated standard addition with an optional Dosimat, only the concentration of the standard and the desired quantity of addition steps need to be entered, the pH/ion meter takes care of the rest. Up to 19 standards can be used for the calibration for direct measurement.

Combined pH electrode with integrated Pt1000 temperature sensor for pH measurements/titrations. This electrode is particularly suitable:

- for pH measurements and titrations in difficult, viscous, or alkaline samples
- at elevated temperatures
- for long-term measurements

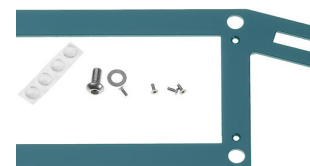


The fixed ground-joint diaphragm is insensitive to contamination.

Reference electrolyte:  $c(\text{KCl}) = 3 \text{ mol/L}$ , storage in storage solution.

Alternatively: reference electrolyte for measurements at  $T > 80^\circ\text{C}$ : Idrolyte, storage in Idrolyte.

Support stand for 780, 781 pH meter



1 PCS

6.2013.010

Clamping ring

For support rods with a diameter of 10 mm.



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1 PCS

6.2016.070

Support rod / 400 mm



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1 PCS

6.2021.020

Electrode holder

Electrode holder for 4 electrodes and 2 buret tips



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1 PCS

6.2104.600

Electrode cable for plug in head U/plug F, 2x2 mm B,  
1m

For connecting electrodes with Metrohm plug-in head U to Metrohm  
instruments (socket F).



1 PCS

6.2153.000

Power adapter 100-240 V / 12 V DC

Power supply, 100-240 V, 50-60 Hz, 12 V DC for 780 pH-/Ionmeter, 781,  
is also used with 6.1830.020 heatable tubing



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1 PCS

6.2621.070

5 mm hex key for IC Sample Processors



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1 PCS

6.2621.130

Hexagon key 2 mm

2 mm.



## Accesorios opcionales

| Order no.  | Descripción                                                                                                                                                                                                                         |                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2.140.0200 | Impact printer CUSTOM DP40-S4N<br><br>Normal paper printer, paper width 58 mm (40 columns), serial interface RS 232C (DB9). U = 100...240 V, 50/60 Hz.                                                                              |    |
| 2.801.0010 | 801 Stirrer<br><br>Magnetic stirrer without stand for supplementing the Titrino plus, Dosimat plus, Titrandos, Sample Processors, 805 Dosimats and 780/781 pH Meters. With permanently attached cable for MSB (Metrohm Serial Bus). |    |
| 2.802.0040 | 802 Stirrer for 804 Ti Stand<br><br>Rod stirrer including 6.1909.010 stirring propeller.                                                                                                                                            |  |
| 2.804.0010 | 804 Ti Stand without stand rod<br><br>Titration stand and controller for 802 Stirrer. The 804 Ti Stand together with the optional 802 Stirrer provides an alternative to the magnetic stirrer. Without stand.                       |  |

Universal dispensing unit for titration and dosing tasks in the laboratory. Including push-button cable for manual dispensing control and 6.3026.220 exchange unit (20 mL). A multitude of instruments can be connected at the USB interface of the Dosimat plus, even a number of them simultaneously when a USB hub is used (keyboard, mouse, USB compact printer or USB DIN A4 printer, USB Memory Stick for methods and data backup). The optional 6.2148.030 USB/RS-232 Adapter Box enables the connection of laboratory balances and operation with a computer.



With its four dosing modes, the Dosimat plus offers a multitude of applications:

DOS (Dosing) – Dosing at the press of a button

This mode is particularly suitable for performing manual titrations with indicator. A result can be calculated and a result report can be printed automatically from the dosed volume.

XDOS (Extended dosing) – Controlled dosing

- Fixed volume dosing: The volume and the dosing rate are specified.
- Time-controlled dosing: The volume and the time are specified.
- Dosing according to dosing rate: The dosing rate and the time are specified.

If continuous dosing without interruption is required, then the 865 Dosimat plus can be operated together with an 805 Dosimat in tandem mode.

CNT D (Content dosing) – Preparation of standard and other solutions.

The volume of the solvent to be dosed is determined automatically on the basis of the sample size of the starting substance (solid or stock solution) and the specified target concentration.

LQT (Liquid transfer) – Pipetting and diluting of liquids.

Universal dispensing unit for manual titrations and dosings. Including push-button cable for manual dosing control and 20 mL exchange unit. A multitude of instruments can be connected at the USB interface of the Dosimat plus, even a number of them simultaneously when a USB hub is used (keyboard, mouse, USB compact printer or USB DIN A4 printer, USB Memory Stick for methods and data backup). The optional 6.2148.030 USB/RS-232 Adapter Box enables the connection of laboratory balances and operation with a computer. With its two dosing modes, the Dosimat plus offers the following applications:



#### DOS (Dosing) – Dosing at the press of a button

This mode is particularly suitable for performing manual titrations with indicator. A result can be calculated and a result report can be printed automatically from the dosed volume.

#### XDOS (Extended dosing) – Controlled dosing

- Fixed volume dosing: The volume and the dosing rate are specified.
- Time-controlled dosing: The volume and the time are specified.
- Dosing according to dosing rate: The dosing rate and the time are specified.

6.2103.130

Adapter red 2 mm plug / 4 mm socket

For connecting plug B (4 mm) to 2 mm socket.



6.2103.140

Adapter black 2 mm plug / B socket 4 mm

For connecting plug B (4 mm) to 2 mm socket.



6.2125.090 RS-232 cable 1 m, 25-pin D – sub 25  
RS-232 extension cable (1:1). Specially shielded.



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6.2125.110 RS-232 cable 3 m, 25-pin – 9-pin  
Connecting Metrohm RS-232 interface to PC. Used with pH Meters, Titrinos, KF Coulometers, VA Trace Analyzer.



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6.2125.120 Adapter sub D 25-pin/5 sockets  
Distributes the «Remote lines to 5 x 25-pin sockets. Used with pH Meters, Titrinos, KF Coulometer, Sample Changers, IC systems, etc.



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6.2134.040 RS-232 DB9 - IBM-PC(DB9) connecting cable  
For the Metrohm RS-232 interface - PC connection. For Titrinos, Titrino plus and 756, 831 KF Coulometer, RS-232/USB Box



6.2134.110

Cable RS-232 DB9 socket f – DB9 plug

Connecting Metrohm RS-232 interface (DB9) to a Custom DP40 printer.  
For Titrinos or 756/831 KF Coulometer. RS-232 extension cable (1:1)



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6.2141.320

Remote cable 869 Compact Sample Changer to Remote box MSB

Remote cable (9-pin) for the connection of a 869 Compact Sample  
Changer to (6.2148.010). Remote box MSB

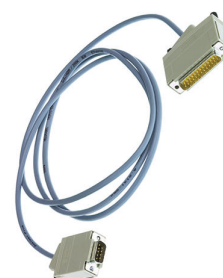


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6.2141.350

Cable Dosimat Plus (9p) - 781 (25p)

Cable for connection of a Dosimat Plus to 781 pH/Ion meter for standard  
addition



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6.2148.010

Remote Box MSB

Additional remote interface for the connection of devices that can be  
controlled via remote lines. With permanently attached cable.



6.2307.230

Buffer solutions pH 4, 7 and 9

Mixed buffer solutions pH 4.00/7.00/9.00 (25 °C) in single use sachets, colourless, box of 3 x 10 x 30 mL



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6.2325.000

pHit kit

Maintenance kit for pH electrodes

The kit contains:

- 50 mL cleaning solution
- 50 mL 3M KCl solution
- 50 mL storage solution
- 2 Storage vessels
- Instructions for use

