SevenExcellence™ pH/mV
Professional and Flexible

SevenExcellence™ pH/mV meter redefines flexibility and also offers various measurement parameters in one meter. It not only measures pH and ORP with classical sensors, but also supports pH measurement with ISFET technology.

Flexibility is also reflected through the numerous measurement, calibration and endpoint possibilities. The measurement endpoints after a pre-defined interval when using the timed endpoint setting and only after user interaction when using the manual setting. It is also possible to endpoint the measurement automatically according to pre-defined or user-defined endpoint criteria.

Professional pH calibration

Choose from one of eight pre-defined calibration buffers groups or easily create your own. With the Pick-and-Mix™ feature you can conveniently combine pH buffers from different groups. After calibration the sensor icon shows you the quality of the calibration at a glance.

Methods for secure and efficient calibrations

Using methods is a secure and efficient way of calibrating a pH sensor. Once a method is created, each calibration will use identical settings. Limits for offset and slope can be monitored to avoid a poor calibration from being stored.

Sensor test

SevenExcellence offers the possibility to check the performance of a pH sensor. The special method type sensor test guides the user through the individual steps, checking various measurement characteristics of a sensor, such as drift and repeatability.

Description and order information for SevenExcellence™ pH/mV

	Measuring range	Resolution	Accuracy
pH	–2.000 … 20.000	0.001 / 0.01 / 0.1	± 0.002
mV*	–2000.0 … 2000.0	0.1 / 1	± 0.1
ISFET pH	0.000 … 14.000	0.001 / 0.01 / 0.1	± 0.05
Temperature**	–30.0 … 130.0 °C	0.1 °C	± 0.1 °C

Calibration	Max. 5 points, 8 pre-defined and 20 user-defined buffer groups
Methods	17 pre-defined and 60 user defined methods
System	Date/time, PIN-protection, user management, 10 languages
Data storage	At least 20000 data points, 250 analyses
Data export	USB-Stick, LabX® direct PC software

* Instrument can also measure rel. mV / ** Temperature choice between °C and °F

Order info	Description and sensors	Order no.
S400-Basic (instrument)	Includes instrument, pH/mV expansion unit, 2 blank expansion units, uPlace™ electrode holder, semi-transparent cover, operating instructions, installation and quick guide, LabX® direct pH PC software, declaration of conformity and test certificate.	30046240
S400-Kit (kit)	As S400-Basic, but also with InLab® Expert Pro-ISM, guide to pH measurements and 2 buffer sachets for pH 4.01, 7.00, 9.21 and 10.00.	30046241
S400-Bio (kit)	As S400-Kit but with InLab® Routine Pro-ISM cable kit instead of InLab® Expert Pro-ISM.	30046242
S400-ISFET (kit)	As S400-Kit but with InLab® 490 instead of InLab® Expert Pro-ISM.	30046243

SevenExcellence™ pH/Ion
Professional and Powerful

The SevenExcellence™ pH/Ion meter combines the advantages of a professional pH meter with the flexibility of a powerful ion meter. It can measure pH and ORP as well ion concentration in six different units.

The wealth of measurement possibilities is also reflected in the large collection of compatible pH, ORP and Ion sensors available. If your special applications require you can also connect an external temperature sensor as well as a separate reference electrode.

Incremental methods

Special methods for the most common incremental ion measurement techniques are included, such as various standard addition/subtraction and sample addition/subtraction methods. This gives you a flexible and contemporary tool kit for professional ion measurements!

Full ion support

The twelve most commonly used ion types are pre-programmed in the instrument making the settings as convenient as possible. For others you can enter the ion charge and molar mass to ensure that all calculations and conversions are done for you.

Ion measurements – flexbile sensor choice

With SevenExcellence it is possible to use our perfectION™ series of combined ion selective electrodes as well our collection of half-cells. For measurements with half-cell sensors there is an input for connection of a reference electrode.

Description and order information for SevenExcellence™ pH/Ion

	Measuring range	Resolution	Accuracy
pH	−2.000 … 20.000	0.001 / 0.01 / 0.1	± 0.002
mV*	−2000.0 … 2000.0	0.1 / 1	± 0.1
Ion concentration	0 … 999 999 mg/L, ppm	0.001 … 1	± 0.5%
Temperature**	−30.0 … 130.0 °C	0.1 °C	± 0.1 °C

Calibration	Max. 5 points, 8 pre-defined and 20 user-defined buffer groups
Methods	17 pre-defined and 60 user defined methods
System	Date/time, PIN-protection, user management, 10 languages
Data storage / Data export	At least 20 000 data points, 250 analyses / USB-Stick, LabX® direct PC software

* Instrument can also measure rel. mV / ** Temperature choice between °C and °F

Order info	Description and sensors	Order no.
S500-Basic (instrument)	Includes instrument, pH/ion expansion unit, 2 blank expansion units, uPlace™ electrod holder, semi-transparent cover, operating instructions, installation and quick guide, LabX® direct pH PC software, declaration of conformity and test certificate.	30046248
S500-Kit (kit)	As S500-Basic, but also with InLab® Expert Pro-ISM, guide to pH measurements and 2 buffer sachets for pH 4.01, 7.00, 9.21 and 10.00.	30046249
S500-Bio (kit)	As S500-Kit but with InLab® Routine Pro-ISM cable kit instead of InLab® Expert Pro-ISM.	30046250
S500-F (kit)	As S500-Kit but with PerfectION™ Fluoride instead of InLab® Expert Pro-ISM.	30046251
Triple channel instrument with pH/Ion, pH/mV and conductivity expansion units		
S475-Basic (instrument)	Includes instrument, pH/Ion expansion unit, pH/mV expansion unit, conductivity expansion unit, uPlace™ electrode holder, semi-transparent cover, operating instructions, installation and quick guide, LabX® direct pH PC software, declaration of conformity and test certificate.	30046255

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.