SevenExcellence™ Conductivity
Professional and Contemporary

The SevenExcellence™ Conductivity meter is a flexible and modern meter that is suitable for professional and routine measurements alike. In addition to conductivity it also measures various other parameters such as resistivity, salinity, total dissolved solids and conductivity ash.

The instrument supports your workflow, making conductivity measurements obstacle-free. For special applications such as USP/EP and conductivity ash it guides you through the measurement steps and notifies you when a measurement is out of range.

Methods – a perfect match for conductivity

In addition to being more secure, more reproducible due to identical settings and more convenient, methods also enable you to run special applications for conductivity. These include USP/EP measurement of pure water with limits monitoring and Conductivity Ash measurements according to two ICUMSA regulations.

Pure water – high accuracy for low conductivity

Low conductivity measurement requires special attention. When measuring pure or ultra-pure water there are several sources of potential error such as carbon dioxide from air and temperature inaccuracy. Our digital conductivity cell InLab® Trace, with high temperature accuracy and optional flow through cell now provides the perfect solution.

Temperature compensation for pure water

For pure water, SevenExcellence offers a special temperature compensation mode to increase the reliability of your readings. For USP/EP measurements the temperature compensation must be disabled to comply with the regulations. These settings are automatically applied when using the pre-defined USP/EP method.

Description and order information for SevenExcellence™ Conductivity

	Measuring range	Resolution	Accuracy
Conductivity*	0.001 µS/cm … 2000 mS/cm	0.001 … 1	± 0.5%
Temperature**	–30.0 … 130.0 °C	0.1 °C	± 0.1 °C

Calibration	13 pre-defined and 20 user-defined standards
Temperature compensation	Linear, non-linear, off, pure-water; reference temperature 20 °C or 25 °C
Methods	17 pre-defined and 60 user defined methods
System	Date/time, PIN-protection, user management, 10 languages
Data storage / Data export	At least 20000 data points, 250 analyses / USB-Stick, LabX® direct PC software

*Instrument can also measure salinity, resistivity and total dissolved solids / ** Temperature choice between °C and °F

Order info	Description and sensors	Order no.
S700-Basic (instrument)	Includes instrument, conductivity 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.	30046244
S700-Kit (kit)	As S700-Basic, but also with InLab® 731-ISM, guide to conductivity measurements and 2 calibration sachets for 1413 µS/cm and 12.88 mS/cm.	30046245
S700-Trace (kit)	As S700-Kit but with InLab® Trace instead of InLab® 731-ISM, with Flow-Cell and without calibration sachets.	30046246

Dual channel instrument with pH/mV and conductivity expansion units (for triple channel see page 17 and 19)

S470-Basic (instrument)	As S700-Basic, but with a pH/mV expansion unit instead of a blank expansion unit.	30046252
S470-Kit (kit)	As S700-Kit, but with but with a pH/mV expansion unit instead of a blank expansion unit. Additionally with InLab® Expert Pro-ISM, guide to pH measurements and 2 buffer sachets for pH 4.01, 7.00, 9.21 and 10.00.	30046253
S470-USP/EP (kit)	As S470-Kit but with InLab® 741-ISM instead of InLab® 731-ISM and InLab® Pure Pro-ISM instead of InLab® Expert Pro-ISM, BNC/RCA-MultiPin™ ISM-cable (1.2 m), and without 1413 µS/cm and 12.88 mS/cm calibration sachets.	30046254