

SevenCompact™ 230

Truly Universal and Reliable



The SevenCompact™ series combines precise electrochemical measurement technologies with flexibility, innovative design and ease-of-use. It can be universally employed and continues the tradition of the Seven series from METTLER TOLEDO.

The SevenCompact™ conductivity meter S230 is the perfect choice for a wide range of applications. Not only does it measure conductivity but also various other parameters, like salinity, total dissolved solids, resistivity and conductivity ash. Starting a measurement or calibration has never been easier, requiring only a single keypress.

Seven good reasons for SevenCompact™

- Fast and accurate measurements
- User-friendly operation
- Menu guidance in 10 languages
- Clear, well arranged color display
- Many peripheral options
- GLP compliant
- Service offering, including IQ/OQ

Productive Work from the Start

Intuitive and Powerful

The instrument's functionality has been designed to maximize the productivity of your work. Stand alone, the instrument already offers many functionalities, but you can achieve higher efficiency and flexibility by connecting peripherals.

Security

The instrument's versatility is also reflected in its security package. Users requiring little or no GLP support can easily use the instrument

without worrying about security settings. Still they benefit from the functionalities that minimize mistakes, such as calibration support and Intelligent Sensor Management

(ISM[®]). On the other hand, those that need full GLP support will have peace of mind when employing the full spectrum of security functionalities.

All Parameters or the Essentials – Decide by a Single Keypress



The instrument gives you the choice! In the normal screen layout, all available information is visible. By switching to the uFocus™ view you will not be distracted by information of less importance.

Perfect Ergonomics and High Productivity with uPlace™



uPlace™: the electrode arm can be operated with one hand; moving straight up and down. This allows for faster measurements and reduces the risk of the sample vessel tipping over and/or damage to the sensor!

Total Flexibility with Data Processing



Upon endpointing SevenCompact™ allows multiple archiving options: the data can be stored, printed or transferred to LabX direct. Any combination of these three options is possible giving you total flexibility.

Specifications for SevenCompact™ Conductivity S230

	Measuring range	Resolution	Accuracy
Conductivity	0.001 µS/cm ... 1000 mS/cm	0.001 ... 1	± 0.5%
TDS	0.00 mg/L...1000 g/L	0.01 ... 1	± 0.5%
Salinity	0.00... 80.00 psu	0.00 ... 1.0	± 0.5%
Resistivity	0.00...100.0 MΩ•cm	0.00 ... 1.0	± 0.5%
Conductivity ash	0.000...2022%	0.001 ... 1	± 0.5%
Temperature MTC	-30.0 ... 130.0 °C	0.1 °C	± 0.1 °C
Temperature ATC	-5.0 ... 130.0 °C	0.1 °C	± 0.1 °C
Calibration	Calibration points Calibration standards Temperature capture Manual input of cell constant Display of cell constant Calibration reminder	1 13 pre-defined and 1 user-defined Automatic* and manual Yes Always visible on home screen User-configurable	
Measurement	Choice of endpoint formats Temperature capture Choice of reference temperature Choice of temperature compensation Serial measurements	Automatic, manual, timed Automatic* and manual 20 °C or 25 °C Linear, non-linear, off, pure-water Time interval user-configurable	
Regulations	Pure & ultra-pure water Bioethanol Sugar analysis	USP/EP compliant ABNT NBR 10547:2006 ICUMSA GS2/3-17 and GS 1/3/4/7/8-13	
System and GLP	Menu guidance Display color scheme Time and date PIN protection Measurement limits Instrument modes ID input ID input automation	10 languages Blue, red, green, grey 2 time formats, 4 date formats Login, deletion of data, system settings User-defined Routine mode / expert mode User ID, sample ID, sensor ID, sensor SN Barcode reader and keyboard (USB)	
Data processing	Data storage Print formats Data Export	1000 measurements Short, normal, GLP USB-stick, LabX direct PC software	
Connectors	Conductivity input Temperature sensor input Digital sensor input Communication interfaces Stirrer connector	Mini-DIN Mini-DIN (integrated in conductivity input) mini-LTW RS232, USB-A, USA-B Mini-DIN	
General	Power requirements Size/weight Display	DC 9–12 V/10 W 204 x 174 x 74 mm, 890 g TFT	
Ambient conditions	Display Temperature Relative humidity Installation category Pollution degree Altitude	TFT 5 ... 40 °C 5 ... 80% (non-condensing) II 2 Up to 2000 m above sea level	
Ingress protection	Protection level	IP54	
Materials	Housing Window Keypad	ABS/PC reinforced Polymethyl methacrylate (PMMA) Membrane keypad: Polyethylene terephthalate (PET)	

* all conductivity sensors provided by METTLER-TOLEDO have an integrated temperature sensor. With these only ATC measurements/calibrations are possible.

Order Information

Description and order information for SevenCompact™ Conductivity S230

Order info	Description and sensors	Order no.
S230-Basic (instrument)	Includes instrument, electrode holder, protective cover, operating instructions, quick guide, declaration of conformity and test certificate	30019033
S230-Kit (kit)	As S230-Basic, but also with InLab® 731-ISM, guide to conductivity and dissolved oxygen, and 2 calibration sachets for 1413 µS/cm and 12.88 mS/cm	30019034
S230-USP/EP (kit)	As S230-Kit but with InLab® 741-ISM instead of InLab® 731-ISM, and without 12.88 mS/cm calibration sachets	30019035

General accessories for SevenCompact™

Description	Order no.
uPlace™: Electrode holder (included in standard delivery)	30019823
Protective cover (included in standard delivery)	30019824
Mains adapter 12V (included in standard delivery)	11120270
RS-P25 printer (with RS232 cable)	11124300
Barcode reader body	21901297
USB cable for barcode reader (not included with barcode reader body)	21901309
LabX direct PC software	51302876
USB A-B cable 1.8 m for LabX direct PC software (not included with LabX direct PC software)	51191926
Guide to conductivity and dissolved oxygen (included in kit versions)	51724715

Sensors for SevenCompact™ Conductivity S230

Sensors with fixed cable	Order no.
InLab® 731-ISM, 4-electrode graphite conductivity sensor, ATC	30014092
InLab® 741-ISM, 2-electrode steel conductivity sensor, ATC	30014094
InLab® Trace, high-accuracy sensor for low conductivities, ATC	30014097
Flow-Cell for InLab® Trace	30014098
InLab® Trace Kit (Sensor and Flow-Cell)	30014099

Conductivity standard solutions

Description	Order no.
1413 µS/cm standard conductivity solution in side-sealed sachets, 30 x 20 mL	51302049
12.88 mS/cm standard conductivity solution in side-sealed sachets, 30 x 20 mL	51302050
10 µS/cm standard conductivity solution, 250 mL	51300169
84 µS/cm standard conductivity solution, 250 mL	51302153
500 µS/cm standard conductivity solution, 250 mL	51300170
1413 µS/cm standard conductivity solution, 250 mL	51300192
12.88 mS/cm standard conductivity solution, 250 mL	51302194



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