SevenCompact™ Duo S213
Truly Universal and Reliable

The SevenCompact™ series combines precise electrochemical measurement technologies with flexibility, innovative design and ease-of-use. Optimal measuring specifications ensure great performance in nearly all pH or conductivity related lab measurements.

The SevenCompact™ Duo S213 pH/conductivity meter is is the perfect choice for a wide range of applications. Not only does it measure conductivity and its derived values, such as TDS, salinity, resistivity and conductivity ash, but also pH simultaneously and independently. 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 12 languages
- Clear, well arranged color display
- Many peripheral options
- GLP compliant
- Service offering, including IQ/OQ

METTLER TOLEDO

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.

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.

A reference for intuitive operation	**Robust IP54 design for long lasting investment**	**Useful accessories for great flexibility**

Starting a measurement or calibration, toggling between measurement modes only requires a single keypress. For adjustment of settings, the SevenCompact™ Duo offers menus with full sentences in 12 languages. No more cryptic expressions.

SevenCompact™ Duo's robust, IP54 design, using high quality materials, warrants a durable instrument. Comprehensive service and after sales support guarantee smooth operation years after initial, certified installation.

Connect various accessories such as barcode reader, keyboard, USB stick, USB printer or a PC with EasyDirect™ pH software to boost SevenCompact™'s flexibility. Workflow efficiency is increased with the uPlace sensor stand and the uMix stirrer.

Specifications for SevenCompact™ Duo S213

	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 mV in -1000 … 1000 mV; ±0.2 mV outside
Rel. mV	-2000.0 … 2000.0	0.1/1	±0.1 mV in -1000 … 1000 mV; ±0.2 mV outside
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/ppt	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/ATC	-5.0 (-30.0) ... 130.0 °C (MTC) ATC	0.1 °C	± 0.1 °C
Calibration	Calibration points Cond. Standards and Buffer groups Buffer recognition Isopotential point Temperature capture Calibration reminder Electrode status icon Manual input of cell constant Display of cell constant	Conductivity 1; pH Max. 5 8 pre-defined pH buffers and 13 pre-defined cond. STD 1 user defined each pH 7.00 Automatic* and manual User-configurable Shows quality of last calibration Yes In Conductivity and dual channel mode	
Measurement	Choice of endpoint formats Choice of stability criteria (pH only) Choice of pH decimal places Temperature capture Serial measurements Choice of reference temperature Choice of temperature compensation	Automatic, manual, timed Fast, standard, strict 1.111, 1.11, 1.1 Automatic* and manual Time interval, user-configurable 20 °C or 25 °C Linear, non-linear, off, pure-water	
System and GLP	Menu guidance Display color scheme Time and date PIN protection Measurement limits Instrument modes ID input ID input automation	12 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)	
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	
Data processing	Data storage Print formats Data Export	2000 measurements Short, normal, GLP USB-stick, EasyDirect pH PC software	
Connectors	pH Sensor input Temperature sensor input Reference input Digital sensor input Conductivity input Conductivity input Stirrer connector	BNC (impedance > 3x10^{12} Ω) Cinch/RCA (NTC30 kΩ or Pt1000) 2 mm Ref. Mini-LTW Mini-DIN RS232, USB-A, USA-B Mini-DIN	
General	Power requirements Size/weight Display	DC 9–12 V/ 2.5 W 204 x 174 x 74 mm, 890 g Color TFT	
Ambient conditions	Temperature Relative humidity Installation category Pollution degree Altitude Protection level Housing Window Keypad	5 … 40 °C 5 … 80% (non-condensing) II 2 Up to 2000 m above sea level IP54 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™ Duo pH/Conductivity S213

Order info	Description and sensors	Order no.
S213-Meter	Includes instrument, electrode holder, protective cover, operating instructions, user manual, declaration of conformity and test certificate.	30339958
S213-Standard kit	As 213-Meter, but also with InLab® Expert Pro-ISM pH sensor and InLab® 731 conductivity sensor, guides to pH and conductivity measurements, 2 buffer sachets for pH 4.01, 7.00, 9.21, 10.00, 2 standard sachets for 1433 µS/cm and 12.88 mS/cm.	30339959
S213-Water kit	As 213-STD but with InLab® Pure Pro-ISM instead of Expert Pro-ISM for pH and InLab® 741-ISM instead of 731-ISM for conductivity.	30339980

General accessories for SevenCompact™	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
EasyDirect™ pH	30323214
USB A-B cable 1.8 m for EasyDirect™ pH PC software (not included with EasyDirect™ pH PC software)	51191926
USB-P25 printer (including USB and power cable)	11124301
uMix magnetic stirrer	30040000

Sensors for SevenCompact™ Conductivity	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

Sensors for SevenCompact™ pH	Order no.
InLab® Expert Pro-ISM, rugged 3-in-1 pH sensor, PEEK shaft, ATC	30014096
InLab® Routine Pro-ISM, 3-in-1 pH sensor, glass shaft, ATC, refillable	51344055
InLab® Micro Pro-ISM, 3-in-1 pH sensor, glass shaft, 5 mm shaft diameter, ATC,	51344163
InLab® Pure Pro-ISM, 3-in-1 pH sensor, glass shaft, immovable glass sleeve, ATC, refillable	51344172
InLab® Science Pro-ISM, 3-in-1 pH sensor, glass shaft, movable glass sleeve, ATC, refillable	51344072
InLab® Solids Pro-ISM, 3-in-1 pH sensor, glass shaft, open junction, sharp membrane, ATC	51344155
ISM® cable 1.2 m, BNC/RCA-MultiPin™	30281896

pH buffers and conductivity standard solutions	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
pH 4.01 buffer solution in side-sealed sachet, 30 x 20 mL	51302069
pH 7.00 buffer solution in side-sealed sachets, 30x20 mL	51302047
pH 9.21 buffer solution in side sealed sachets, 30x20 mL	51302070
pH 10.00 buffer solution in side sealed sachets, 30x20 mL	51302079

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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.