## **SevenCompact**<sup>™</sup> ML1503

## Truly Universal and Reliable



The SevenCompact<sup>™</sup> 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™ pH/lon meter ML1503 is the perfect choice for a wide range of applications. It is much more than a pH meter: it can also measure ORP and ion concentration in various units. 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<sup>™</sup> 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 $^{\text{\tiny TM}}$ ML1503 pH/lon

	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	± 0.2
Rel. mV	-2000.0 2000.0	0.1 / 1	± 0.2
lon concentration	0.000 1000.0 % 0.000 10000.0 ppm 1.00E-9 9.99E+9 mg/L 1.00E-9 9.99E+9 mmmol/L 1.00E-9 9.99E+9 mol/L -2.000 20.000 pX	± last significant digit	± 0.5%
Cemperature 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 Buffer groups Buffer recognition Isopotential point Temperature capture Calibration reminder Electrode status icon	Max. 5 8 pre-defined and 1 user-defined Automatic pH 7.00 Automatic and manual User-configurable Shows quality of last calibration	
Measurement	Choice of endpoint formats Choice of stability criteria Choice of pH decimal places Temperature capture Serial measurements	Automatic, manual, timed Fast, standard, strict X.XXX, X.XX, X.X Automatic and manual Time interval user-configurable	
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	pH Sensor input Temperature sensor input Reference input Digital sensor input Communication interfaces Stirrer connector	BNC (impendance $> 3 \times 10E+12\Omega$ ) Cinch/RCA (NTC30 k $\Omega$ or Pt1000) 2 mm Ref. mini-LTW RS232, USB-A, USA-B Mini-DIN	
General	Power requirements Size/weight Display	DC 9–12W10W 204 x 174 x 74 mm, 890 g TFT	
Ambient conditions	Display Temperature Relative humidity Installation category Pollution degree Altitude	TFT 540 °C 580% (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 terephtalate (PET)	

#### **Order Information**

#### Description and order information for SevenCompact™ pH/lon ML1503

Order info	Description and sensors	Order no.
ML1503-Basic	Includes instrument, electrode holder, protective cover, operating instructions, quick guide,	ML1503
(instrument)	declaration of conformity and test certificate	
ML1503-Kit (kit)	As ML1503-Basic, but also with InLab® Expert Pro-ISM, guide to pH measurements and	ML1503K
	2 buffer sachets for pH 4.01, 7.00, 9.21 and 10.00.	
ML1503-Bio (kit)	As ML1503-Kit but with InLab® Routine Pro-ISM cable kit instead of InLab® Expert Pro-ISM	ML1503B
ML1503-U (kit)	As ML1503-Kit but with InLab® Versatile Pro instead of InLab® Expert Pro-ISM	ML1503U

#### General accessories for SevenCompact™

Description	Order no.
uPlace <sup>™</sup> : 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 1.8m for LabX direct PC software (not included with LabX direct PC software)	51191926
Guide to pH measurement (included in kit versions)	51300058

#### Sensors and cables for SevenCompact<sup>™</sup> pH/lon ML1503

Order no.
30014096
51343031
51344055
51344163
51344112
51344172
51344072
51344155
51344291
51344292
Order no

Order no.
51302069
51302047
51302070
51302079
51302068
51302080
51350002
51350004
51350006
51350008
51350010
51350012

